

**GW - 014**

**MONITORING REPORT**

**Environmental Status  
Report  
(Final)**

**November 2010**

**GW - 014**

**MONITORING REPORT**

**Environmental Status  
Report Maps  
(Final)**

**November 2010**



**Environmental Status Report**  
**Copies of Spill Reports and Release Investigations**

**Navajo Refining Company, Lea Refinery**  
**Lovington, New Mexico**

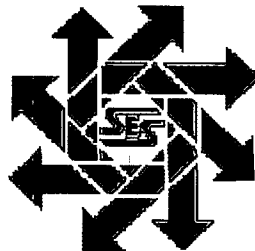
November 19, 2010

**Prepared for:**



**Navajo Refining Company**  
**501 East Main Street**  
**Artesia, New Mexico 88210**

***By:***



***Safety & Environmental Solutions, Inc.***  
***703 E. Clinton***  
***Hobbs, New Mexico 88240***  
***(575) 397-0510***

2010 NOV 22 P 12:18

RECEIVED OCD

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

Name of Company Navajo Refining Lea Plant

Contact Darrell Moore

Address 7406 S. Main Lovington, NM 88260

Telephone No. 575-746-5281

Facility Name

Facility Type Petroleum Refinery

Surface Owner

Mineral Owner

Lease No.

**LOCATION OF RELEASE**

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
|             |         |          |       |               |                  |               |                |        |

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

|                                                                                                                                          |                                                      |                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|
| Type of Release Gas Oil                                                                                                                  | Volume of Release 25 bbls                            | Volume Recovered 15 bbls                            |
| Source of Release                                                                                                                        | Date and Hour of Occurrence<br>July 26, 2009 2:00 pm | Date and Hour of Discovery July 26,<br>2009 2:00 pm |
| Was Immediate Notice Given?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?                                     |                                                     |
| By Whom?                                                                                                                                 | Date and Hour                                        |                                                     |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                        | If YES, Volume Impacting the Watercourse.            |                                                     |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

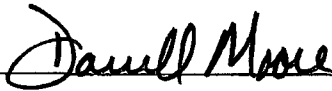
Tk 1214 was run over during normal operations. Crews were working in the area and noticed the tank running over and it was shut down immediately.

Describe Area Affected and Cleanup Action Taken.\*

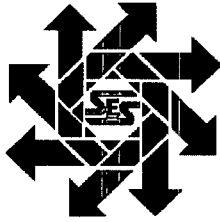
Area affected is a strip about 150 ft east of the tank and about 10 ft wide. All contamination stayed inside the tank berm. Contaminated soil was picked up and vacuum truck recovered about 15 bbls of the spilled material.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

**OIL CONSERVATION DIVISION**

|                                                                                                |                                  |                  |                                   |
|------------------------------------------------------------------------------------------------|----------------------------------|------------------|-----------------------------------|
| Signature:  | Approved by District Supervisor: |                  |                                   |
| Printed Name: Darrell Moore                                                                    |                                  |                  |                                   |
| Title: Environmental Manager for Water and Waste                                               | Approval Date:                   | Expiration Date: |                                   |
| E-mail Address: Darrell.moore@hollycorp.com                                                    | Conditions of Approval:          |                  | Attached <input type="checkbox"/> |
| Date: July 28, 2009<br>746-5281                                                                | Phone: 575-                      |                  |                                   |

\* Attach Additional Sheets If Necessary



P.O. Box 1613  
703 E. Clinton  
Hobbs, New Mexico 88240  
575/397-0510  
FAX 575/393-4388  
www.sesi-nm.com

## **Safety & Environmental Solutions, Inc.**

April 16, 2010

Mr. Darrell Moore  
Environmental Manager for Water and Waste  
Navajo Refining Company  
P.O. Box 159  
Artesia, New Mexico 88211

RE: Report on Tank 1214 Site Investigation

Dear Darrell:

This letter report provides results of the site investigation conducted following a release of gas oil at the Lea Refinery. Gas oil is a heavy oil produced in the refining process and further processed into other fuels or products. It has a high boiling point (350°-1,000°F), high specific gravity (0.914-0.928) and a high auto-ignition temperature (505°F). It is viscous and in cooler temperatures it can congeal into a tarry semisolid.

On July 26, 2009 at about 2 pm, Tank 1214 at Lovington facility was overrun and spilled 25 bbls of gas oil. Navajo mobilized clean up crews and picked up about 100 cubic yards of contaminated soil which was transported to Controlled Recovery Inc. for disposal. Safety and Environmental Solutions was contacted to perform delineation of the spill including drilling borings and sampling.

The release location is within a tank bermed area containing Tank 1214 and several other tanks. Also within the bermed area and immediately adjacent to the spill area is refinery monitor well MW-13. The depth to ground water beneath the ground surface in June 2009 was 106.3 feet.

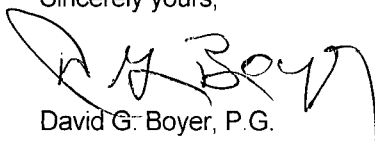
The release flowed past the monitor well a distance of about 170 feet and ponded in the northeast area of the berm. The maximum ponded width was about 65 feet. The area of the release was calculated at 10,971 square-feet. The tank and spill location are shown on Figures 1 and 2.

On August 10, 2009 SESI and Eco/Enviro Drilling mobilized to the location and drilled three borings to determine vertical extent of the spill. The locations of the borings are shown on Figure 2. Surface samples were collected at borings BH-2, and at BH-3 which was at the center of the ponded area.

The results of the surface and borehole sampling are shown in the attached table. The viscosity of the fluid resulted in major impacts being restricted to a depth of 5 feet or above. Minor BTEX was observed to a depth of 20 feet. Benzene was detected only in the surface sample at BH-3 and at a concentration (0.0064 mg/Kg) about one-fifth the concentration of the other BTEX constituents.

Review of the information from the drilling and subsurface samples leads to the conclusion that there is no threat to groundwater from the gas oil release.

Sincerely yours,



David G. Boyer, P.G.

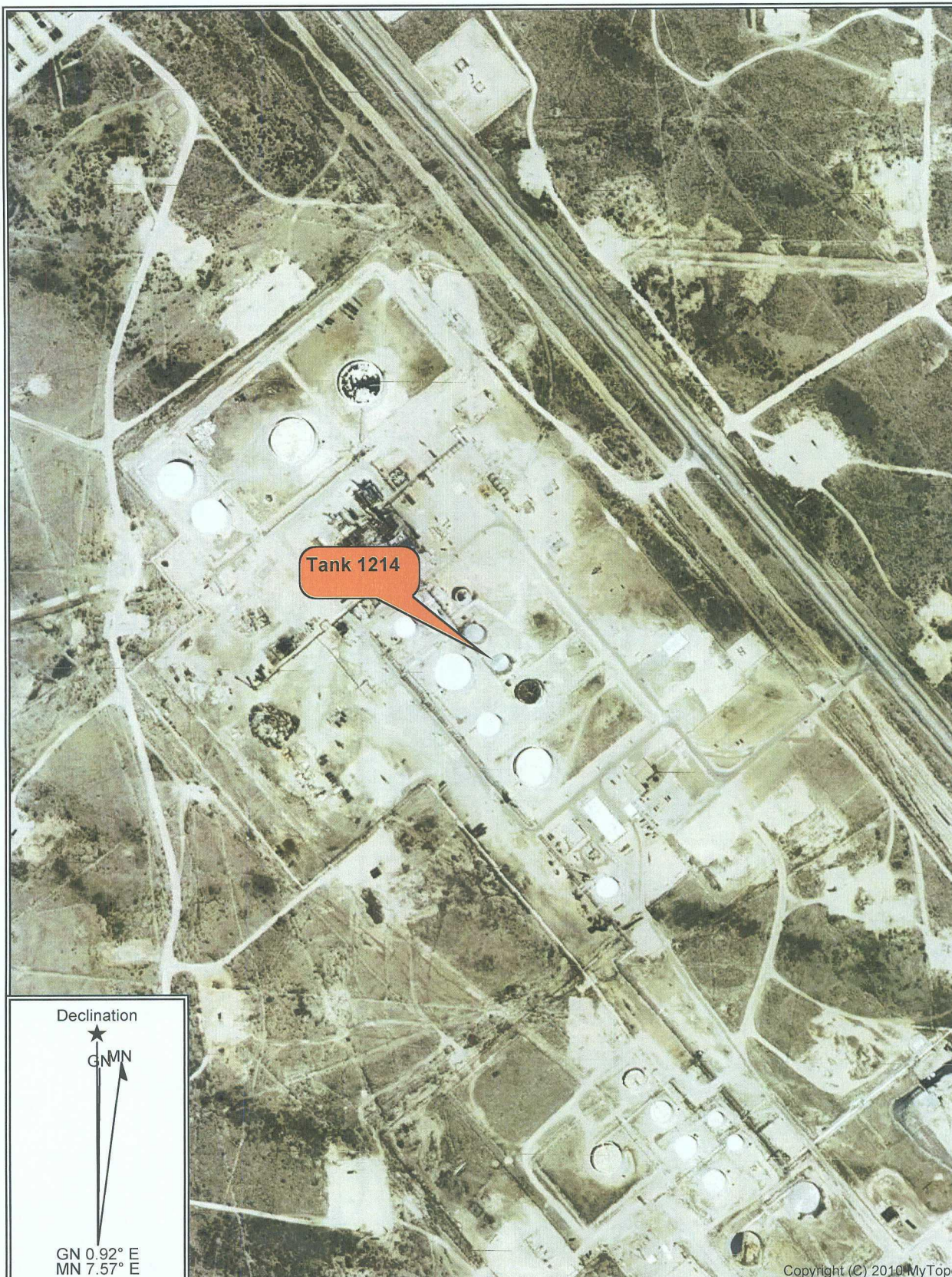
Encl.

Analytical Results of Surface and Borehole Soil Sampling, August 10, 2009

| Sample ID     | (mg/Kg)    |            |            |         |         |                   |                  |
|---------------|------------|------------|------------|---------|---------|-------------------|------------------|
|               | GRO<br>TPH | DRO<br>TPH | MRO<br>TPH | Benzene | Toluene | Ethyl-<br>benzene | Total<br>Xylenes |
| BH-1, 5 ft.   | <500       | 1,700      | 6,400      | <0.0010 | 0.0021  | 0.0023            | 0.0052           |
| BH-1, 10 ft.  | <49        | <49        | <98        | <0.0010 | 0.0012  | <0.0010           | <0.0030          |
| BH-1, 15 ft.  | <49        | <49        | <98        | <0.0010 | <0.0010 | <0.0010           | <0.0030          |
| BH-2, Surface | <2,500     | 5,000      | 29,000     | <0.0010 | 0.0031  | 0.0020            | <0.0030          |
| BH-2, 5 ft.   | <49        | <49        | <97        | <0.0010 | <0.0010 | <0.0010           | <0.0030          |
| BH-2, 10 ft.  | <50        | <50        | <99        | <0.0010 | 0.0065  | 0.0016            | 0.0085           |
| BH-3, Surface | <2,500     | 11,000     | 42,000     | 0.0064  | 0.028   | 0.030             | 0.044            |
| BH-3, 5 ft.   | <50        | 300        | 910        | <0.0010 | 0.0036  | 0.0016            | 0.0039           |
| BH-3, 10 ft.  | <49        | <49        | <98        | <0.0010 | 0.0045  | <0.0010           | 0.0040           |
| BH-3, 15 ft.  | <49        | <49        | <97        | <0.0010 | 0.0050  | <0.0010           | 0.0031           |
| BH-3, 20 ft.  | <50        | <50        | <99        | <0.0010 | 0.0033  | <0.0010           | <0.0030          |

Note: Highlighted values are above the minimum method detection level.





Declination

★  
GMN

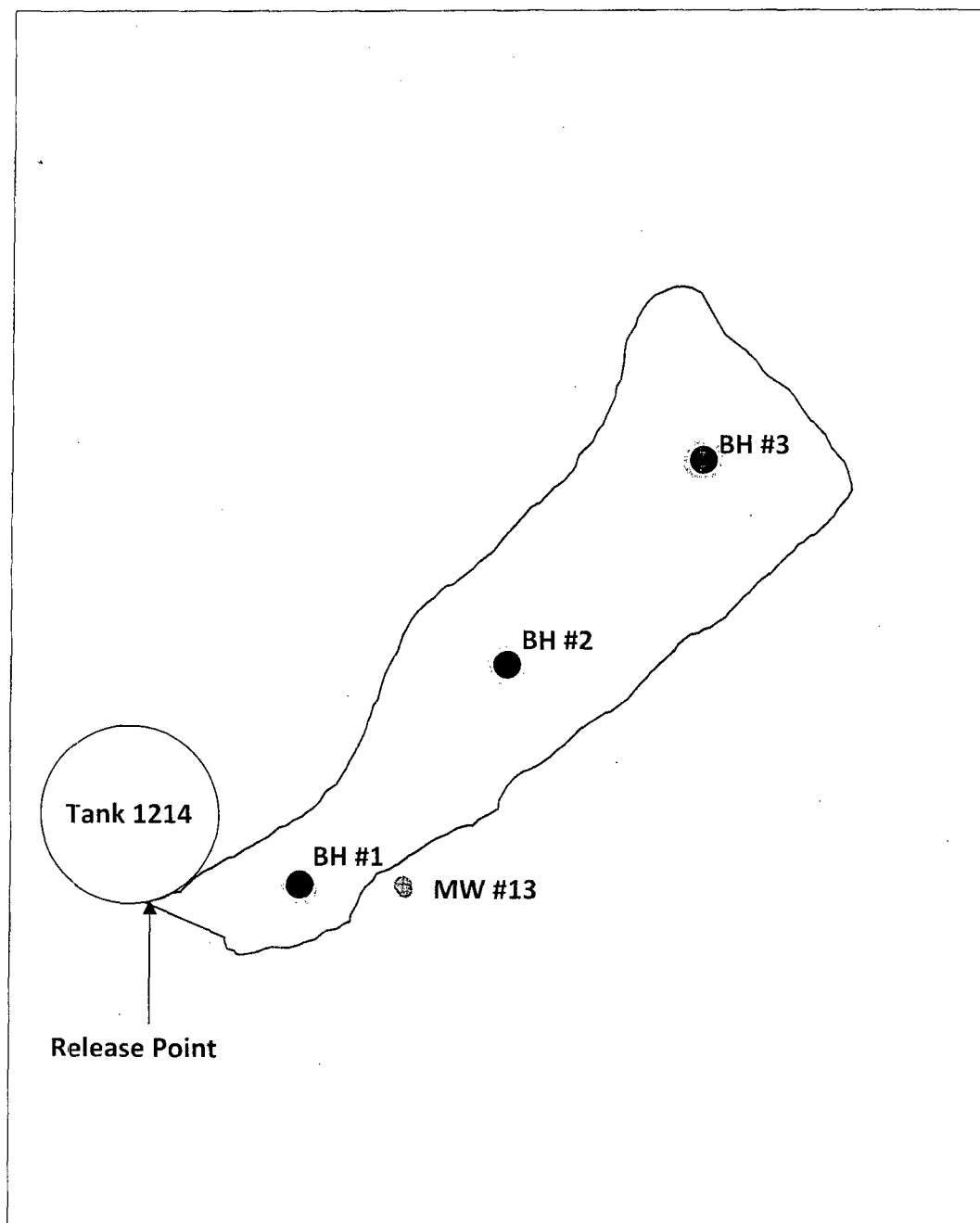
GN 0.92° E  
MN 7.57° E

Copyright (C) 2010 MyTopo

Map Name: SE LOVINGTON, NM  
Scale: 1 inch = 500 ft.

Map Center: 032° 52' 46.99" N 103° 18' 06.46" W  
Horizontal Datum: WGS84





## Tank 1214 Release

Lat/Long  
WGS 1984



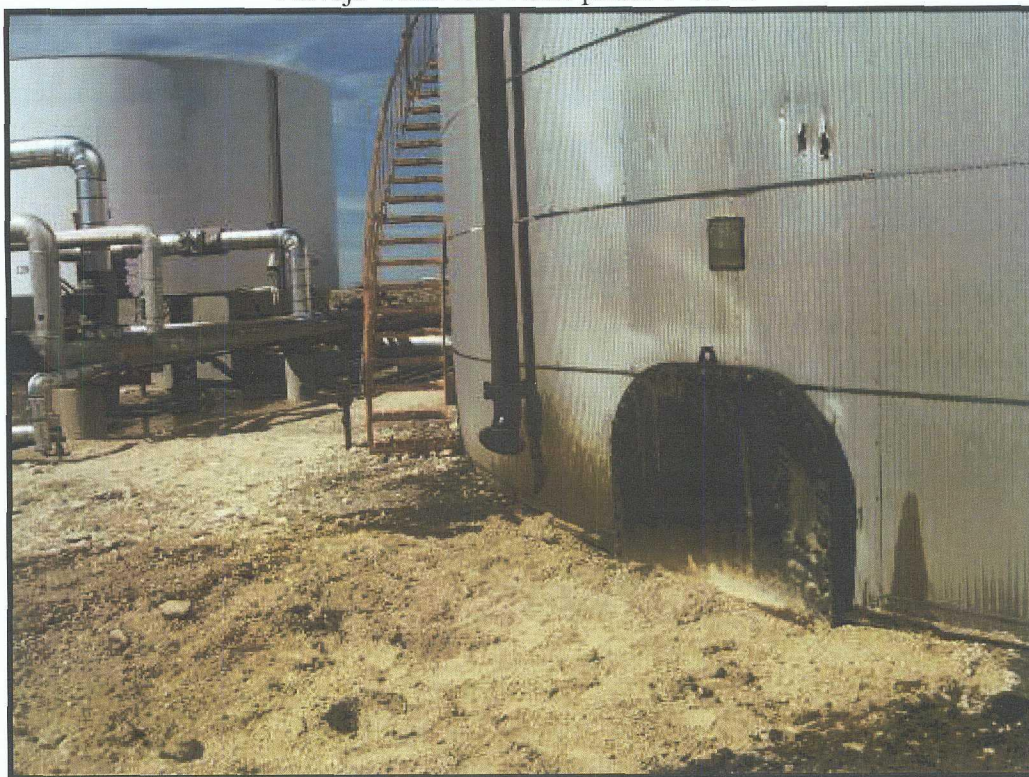
Scale 1 in : 50.0 ft



NAV-09-009 1214 Tank.cor

GPS Pathfinder® Office  
 Trimble™

Navajo Tank 1214 Site photo 7-31-09



Release point



Release point facing south





Spill area facing south



Spill area facing east





Spill area facing east



Spill area facing southeast



Navajo Tank 1214 (site photo 8-10-09)

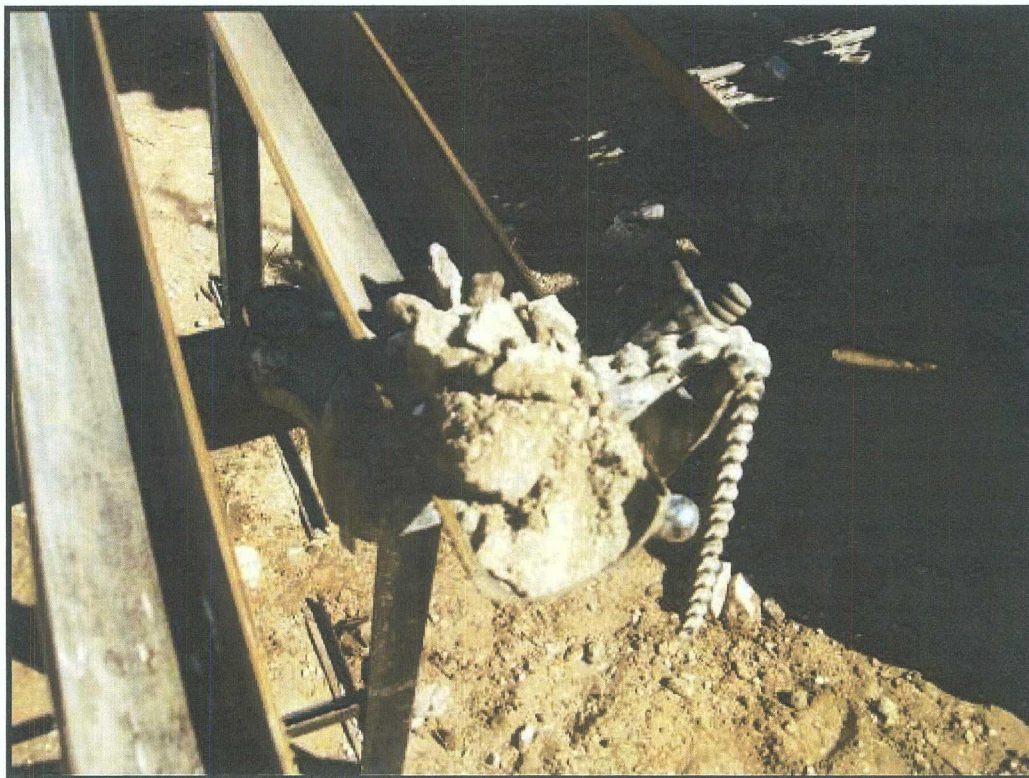


BH #1 10'



BH #1 15'





BH #2 10'



BH #2 5'





BH #3 5'



BH #3 10'





BH #3 15'



BH #3 20'





**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING BH-1

(Page 1 of 1)

Navajo Refining Company  
PO Box 159  
Artesia, New Mex  
N32° 52' 46.3", W103° 18' 05.01"

Date/Time Started : 08/10/09 0740  
Date/Time Completed : 08/10/09 0855  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : Foremost-Mobile B-57

Drilled By : Eco/Enviro Drilling  
Sampling Method : 5 ft. core barrel  
Logged By : Isaac Kincaid, SESI

| Depth<br>in<br>Feet | Sample Method | USCS  | GRAPHIC | Sample Method:<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery | GRO (mg/kg) | DRO (mg/kg) | MRO (mg/kg) | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethyl Benzene (mg/Kg) | Total Xylenes (mg/Kg) |
|---------------------|---------------|-------|---------|---------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-----------------|-----------------|-----------------------|-----------------------|
|                     |               |       |         | DESCRIPTION                                                                                                         |             |             |             |                 |                 |                       |                       |
| 0                   | CB            | CATS  |         | 0-6"- TOP SOIL with heavy staining and odor                                                                         | <500        | 1,700       | 6,400       | <0.0010         | 0.0021          | 0.0023                | 0.0052                |
| 1                   |               |       |         | 6"-2 ft. - CALICHE                                                                                                  |             |             |             |                 |                 |                       |                       |
| 2                   |               |       |         | 2-4 ft. - CALICHE, brown, hard rock                                                                                 |             |             |             |                 |                 |                       |                       |
| 3                   |               |       |         | 4-5 ft. - CALICHE, soft, min odor, coarse                                                                           |             |             |             |                 |                 |                       |                       |
| 4                   | CB            | SP    |         | Recovery 0                                                                                                          | <49         | <49         | <98         | <0.0010         | 0.0012          | <0.0010               | <0.0030               |
| 5                   |               |       |         | 5-10 ft. SAND, light brown sand with no staining, odor with rock fragments, coarse                                  |             |             |             |                 |                 |                       |                       |
| 6                   |               |       |         | Recovery 5                                                                                                          |             |             |             |                 |                 |                       |                       |
| 7                   |               |       |         | 10-12 ft. SAND, with sandstone, with rock fragments, light tan brown, no staining/odor, very fine.                  |             |             |             |                 |                 |                       |                       |
| 8                   | CB            | SP/SS |         | Recovery 12                                                                                                         | <49         | <49         | <98         | <0.0010         | <0.0010         | <0.0010               | <0.0030               |
| 9                   |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 10                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 11                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 12                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 13                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 14                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 15                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 16                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 17                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 18                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 19                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 20                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
|                     |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
|                     |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
|                     |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |

**Notes:**

Backfilled with 7 bags bentonite chips, hydrated.



**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING BH-2

(Page 1 of 1)

Navajo Refining Company  
PO Box 159  
Artesia, New Mex  
N32° 52' 47.0", W103° 18' 04.01"

Date/Time Started : 08/10/09 0915  
Date/Time Completed : 08/10/09 0950  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : Foremost-Mobile B-57

Drilled By : Eco/Enviro Drilling  
Sampling Method : 5 ft. core barrel  
Logged By : Isaac Kincaid, SESI

| Depth<br>in<br>Feet | Sample Method | USCS  | GRAPHIC | Sample Method:<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery | GRO (mg/kg) | DRO (mg/Kg) | MRO (mg/Kg) | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethyl Benzene<br>(mg/Kg) | Total Xylenes<br>(mg/Kg) |
|---------------------|---------------|-------|---------|---------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-----------------|-----------------|--------------------------|--------------------------|
|                     |               |       |         | DESCRIPTION                                                                                                         |             |             |             |                 |                 |                          |                          |
| 0                   | CB            |       |         | 0-6"- TOP SOIL dark black with odor, with rock                                                                      | <2,500      | 5,000       | 29,000      | <0.0010         | 0.0031          | 0.0020                   | <0.0030                  |
| 1                   |               |       |         | 6"-4 ft. - HARD CALICHE, with light tan brown,<br>no staining/odor, coarse                                          |             |             |             |                 |                 |                          |                          |
| 2                   | CB            | TS/CA |         | 4-5 ft.- CALICHE SAND, no staining/odor,<br>coarse                                                                  | <49         | <49         | <97         | <0.0010         | .00010          | <0.0010                  | <0.0030                  |
| 3                   |               |       |         | Recovery 3                                                                                                          |             |             |             |                 |                 |                          |                          |
| 4                   |               |       |         |                                                                                                                     |             |             |             |                 |                 |                          |                          |
| 5                   |               |       |         |                                                                                                                     |             |             |             |                 |                 |                          |                          |
| 6                   |               |       |         | 5-8 ft. - CALICHE, silky and sand, fine, light tan<br>brown with rock fragments                                     | <50         | <50         | <99         | <0.0010         | 0.0065          | 0.0016                   | 0.0085                   |
| 7                   | CB            | CA/SP |         | 8-10 ft.- SAND, with sandstone, fine, no<br>staining/odor, light tan brown.                                         |             |             |             |                 |                 |                          |                          |
| 8                   |               |       |         | Recovery 16                                                                                                         |             |             |             |                 |                 |                          |                          |
| 9                   |               |       |         |                                                                                                                     |             |             |             |                 |                 |                          |                          |
| 10                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                          |                          |
| 11                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                          |                          |
| 12                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                          |                          |
| 13                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                          |                          |
| 14                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                          |                          |
| 15                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                          |                          |

**Notes:**

Backfilled with 4 bags bentonite chips, hydrated.





**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING BH-3

(Page 1 of 1)

Navajo Refining Company  
PO Box 159  
Artesia, New Mex  
N32° 52' 47.3", W103° 18' 03.4"

Date/Time Started : 08/10/09 1012  
Date/Time Completed : 08/10/09 1150  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : Foremost-Mobile B-57

Drilled By : Eco/Enviro Drilling  
Sampling Method : 5 ft. core barrel  
Logged By : Isaac Kincaid, SESI

| Depth<br>in<br>Feet | Sample Method | USCS  | GRAPHIC | Sample Method:<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery | GRO (mg/kg) | DRO (mg/kg) | MRO (mg/kg) | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethyl Benzene (mg/Kg) | Total Xylenes (mg/Kg) |
|---------------------|---------------|-------|---------|---------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-----------------|-----------------|-----------------------|-----------------------|
|                     |               |       |         | DESCRIPTION                                                                                                         |             |             |             |                 |                 |                       |                       |
| 0                   | CB            | TS/CA |         | 0-6"- TOP SOIL, dark black with odor, with rock                                                                     | <2,500      | 11,000      | 42,000      | 0.0064          | 0.028           | 0.030                 | 0.044                 |
| 1                   |               |       |         | 6"-3 ft.- CALICHE, with navy blue grayish staining with odor.                                                       | <50         | 300         | 910         | <0.0010         | 0.0039          | 0.0016                | 0.0039                |
| 2                   | CB            |       |         | 3.5-5 ft.- CALICHE, light tan brown with sand, some odor and min staining                                           |             |             |             |                 |                 |                       |                       |
| 3                   |               |       |         | Recovery 3                                                                                                          |             |             |             |                 |                 |                       |                       |
| 4                   |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 5                   |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 6                   |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 7                   | CB            | SP/SS |         | 5-10 ft.- SAND, with sandstone and rock fragments, no odor/staining, tan brown, very fine.                          | <49         | <49         | <98         | <0.0010         | 0.0045          | <0.0010               | 0.0040                |
| 8                   |               |       |         | Recovery 13                                                                                                         |             |             |             |                 |                 |                       |                       |
| 9                   |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 10                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 11                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 12                  | CB            | SP/SS |         | 10-15 ft.- SAND, with sandstone, light tan brown, min coarse.                                                       | <49         | <49         | <97         | <0.0010         | 0.0050          | <0.0010               | 0.0031                |
| 13                  |               |       |         | Recovery 20                                                                                                         |             |             |             |                 |                 |                       |                       |
| 14                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 15                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 16                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 17                  | CB            | SP/SS |         | 15-20 ft.- SAND, with sandstone, tan brown, no staining, no odor, very fine.                                        | <50         | <50         | <99         | <0.0010         | 0.0033          | <0.0010               | <0.0030               |
| 18                  |               |       |         | Recovery 28                                                                                                         |             |             |             |                 |                 |                       |                       |
| 19                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 20                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 21                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 22                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 23                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 24                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |
| 25                  |               |       |         |                                                                                                                     |             |             |             |                 |                 |                       |                       |

**Notes:**

Backfilled with 9 bags bentonite chips, hydrated.

# ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



## Environmental Division

21-Aug-2009

Darrell Moore  
Navajo Refining Company  
PO Box 159  
Artesia, NM 88211

Tel: (575) 746-5281  
Fax: (505) 746-5421

Re: Lovington Refinery

Work Order: **0908241**

Dear Darrell,

ALS Laboratory Group received 12 samples on 11-Aug-2009 08:45 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 26.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Glenda H. Ramos

JayLynn F Thibault  
Project Manager



Certificate No: T104704231-08-TX

### ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

[www.alsglobal.com](http://www.alsglobal.com) [www.elabi.com](http://www.elabi.com)

A Campbell Brothers Limited Company



Client: Navajo Refining Company  
Project: Lovington Refinery  
Work Order: 0908241

**Work Order Sample Summary**

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 0908241-01         | BH #1 5'                | Soil          |                   | 8/10/2009 07:50        | 8/11/2009 08:45      | <input type="checkbox"/> |
| 0908241-02         | BH#1 10'                | Soil          |                   | 8/10/2009 08:15        | 8/11/2009 08:45      | <input type="checkbox"/> |
| 0908241-03         | BH#1 15'                | Soil          |                   | 8/10/2009 08:30        | 8/11/2009 08:45      | <input type="checkbox"/> |
| 0908241-04         | BH#2 Surface            | Soil          |                   | 8/10/2009 09:13        | 8/11/2009 08:45      | <input type="checkbox"/> |
| 0908241-05         | BH#2 5'                 | Soil          |                   | 8/10/2009 09:25        | 8/11/2009 08:45      | <input type="checkbox"/> |
| 0908241-06         | BH#2 10'                | Soil          |                   | 8/10/2009 09:45        | 8/11/2009 08:45      | <input type="checkbox"/> |
| 0908241-07         | BH#3 Surface            | Soil          |                   | 8/10/2009 10:10        | 8/11/2009 08:45      | <input type="checkbox"/> |
| 0908241-08         | BH#3 5'                 | Soil          |                   | 8/10/2009 10:20        | 8/11/2009 08:45      | <input type="checkbox"/> |
| 0908241-09         | BH#3 10'                | Soil          |                   | 8/10/2009 10:40        | 8/11/2009 08:45      | <input type="checkbox"/> |
| 0908241-10         | BH#3 15'                | Soil          |                   | 8/10/2009 10:55        | 8/11/2009 08:45      | <input type="checkbox"/> |
| 0908241-11         | BH#3 20'                | Soil          |                   | 8/10/2009 11:30        | 8/11/2009 08:45      | <input type="checkbox"/> |
| 0908241-12         | Trip Blank              | Water         |                   | 8/10/2009 11:30        | 8/11/2009 08:45      | <input type="checkbox"/> |

## ALS Laboratory Group

Date: 21-Aug-09

Client: Navajo Refining Company

Project: Lovington Refinery

Work Order: 0908241

### Case Narrative

Batch 37729 TPH (Sample 0908241-04 and 07) recovery out of control limits due to dilution.



**ALS Laboratory Group**

Date: 21-Aug-09

**Client:** Holly Energy Partners  
**Project:** Lovington Refinery  
**Sample ID:** BH #1 5'  
**Collection Date:** 8/10/2009 07:50 AM

**Work Order:** 0908241  
**Lab ID:** 0908241-01  
**Matrix:** SOIL

| Analyses                           | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|------------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH AND MISCELLANEOUS GCFID</b> |        |      |                |       |                      |                    |
|                                    |        |      | <b>SW8015M</b> |       | Prep Date: 8/14/2009 | Analyst: KMB       |
| TPH (Gasoline Range)               | ND     |      | 500            | mg/Kg | 10                   | 8/20/2009 07:41 PM |
| TPH (Diesel Range)                 | 1,700  |      | 500            | mg/Kg | 10                   | 8/20/2009 07:41 PM |
| TPH (Motor Oil Range)              | 6,400  |      | 990            | mg/Kg | 10                   | 8/20/2009 07:41 PM |
| Surr: 2-Fluorobiphenyl             | 114    |      | 70-130         | %REC  | 10                   | 8/20/2009 07:41 PM |
| Surr: Trifluoromethyl benzene      | 123    |      | 70-130         | %REC  | 10                   | 8/20/2009 07:41 PM |
| <b>BTEX</b>                        |        |      |                |       |                      |                    |
|                                    |        |      | <b>SW8021B</b> |       |                      | Analyst: WLR       |
| Benzene                            | ND     |      | 0.0010         | mg/Kg | 1                    | 8/14/2009 11:43 PM |
| Toluene                            | 0.0021 |      | 0.0010         | mg/Kg | 1                    | 8/14/2009 11:43 PM |
| Ethylbenzene                       | 0.0023 |      | 0.0010         | mg/Kg | 1                    | 8/14/2009 11:43 PM |
| Xylenes, Total                     | 0.0052 |      | 0.0030         | mg/Kg | 1                    | 8/14/2009 11:43 PM |
| Surr: 4-Bromofluorobenzene         | 94.9   |      | 75-131         | %REC  | 1                    | 8/14/2009 11:43 PM |
| Surr: Trifluorotoluene             | 99.8   |      | 73-130         | %REC  | 1                    | 8/14/2009 11:43 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 21-Aug-09

Client: Holly Energy Partners  
Project: Lovington Refinery  
Sample ID: BH#1 10'  
Collection Date: 8/10/2009 08:15 AM

Work Order: 0908241  
Lab ID: 0908241-02  
Matrix: SOIL

| Analyses                           | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|------------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH AND MISCELLANEOUS GCFID</b> |        |      | <b>SW8015M</b> |       | Prep Date: 8/14/2009 | Analyst: KMB       |
| TPH (Gasoline Range)               | ND     |      | 49             | mg/Kg | 1                    | 8/20/2009 10:12 AM |
| TPH (Diesel Range)                 | ND     |      | 49             | mg/Kg | 1                    | 8/20/2009 10:12 AM |
| TPH (Motor Oil Range)              | ND     |      | 98             | mg/Kg | 1                    | 8/20/2009 10:12 AM |
| Surr: 2-Fluorobiphenyl             | 103    |      | 70-130         | %REC  | 1                    | 8/20/2009 10:12 AM |
| Surr: Trifluoromethyl benzene      | 102    |      | 70-130         | %REC  | 1                    | 8/20/2009 10:12 AM |
| <b>BTEX</b>                        |        |      | <b>SW8021B</b> |       |                      | Analyst: WLR       |
| Benzene                            | ND     |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 04:57 PM |
| Toluene                            | 0.0012 |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 04:57 PM |
| Ethylbenzene                       | ND     |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 04:57 PM |
| Xylenes, Total                     | ND     |      | 0.0030         | mg/Kg | 1                    | 8/12/2009 04:57 PM |
| Surr: 4-Bromofluorobenzene         | 106    |      | 75-131         | %REC  | 1                    | 8/12/2009 04:57 PM |
| Surr: Trifluorotoluene             | 108    |      | 73-130         | %REC  | 1                    | 8/12/2009 04:57 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 21-Aug-09

**Client:** Holly Energy Partners  
**Project:** Lovington Refinery  
**Sample ID:** BH#1 15'  
**Collection Date:** 8/10/2009 08:30 AM

**Work Order:** 0908241  
**Lab ID:** 0908241-03  
**Matrix:** SOIL

| Analyses                           | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|------------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH AND MISCELLANEOUS GCFID</b> |        |      | <b>SW8015M</b> |       | Prep Date: 8/14/2009 | Analyst: KMB       |
| TPH (Gasoline Range)               | ND     |      | 49             | mg/Kg | 1                    | 8/20/2009 01:55 AM |
| TPH (Diesel Range)                 | ND     |      | 49             | mg/Kg | 1                    | 8/20/2009 01:55 AM |
| TPH (Motor Oil Range)              | ND     |      | 98             | mg/Kg | 1                    | 8/20/2009 01:55 AM |
| Surr: 2-Fluorobiphenyl             | 112    |      | 70-130         | %REC  | 1                    | 8/20/2009 01:55 AM |
| Surr: Trifluoromethyl benzene      | 112    |      | 70-130         | %REC  | 1                    | 8/20/2009 01:55 AM |
| <b>BTEX</b>                        |        |      | <b>SW8021B</b> |       |                      | Analyst: WLR       |
| Benzene                            | ND     |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 05:30 PM |
| Toluene                            | ND     |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 05:30 PM |
| Ethylbenzene                       | ND     |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 05:30 PM |
| Xylenes, Total                     | ND     |      | 0.0030         | mg/Kg | 1                    | 8/12/2009 05:30 PM |
| Surr: 4-Bromofluorobenzene         | 105    |      | 75-131         | %REC  | 1                    | 8/12/2009 05:30 PM |
| Surr: Trifluorotoluene             | 110    |      | 73-130         | %REC  | 1                    | 8/12/2009 05:30 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 21-Aug-09

Client: Holly Energy Partners  
Project: Lovington Refinery  
Sample ID: BH#2 Surface  
Collection Date: 8/10/2009 09:13 AM

Work Order: 0908241  
Lab ID: 0908241-04  
Matrix: SOIL

| Analyses                           | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|------------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH AND MISCELLANEOUS GCFID</b> |        |      |                |       |                      |                    |
|                                    |        |      | <b>SW8015M</b> |       | Prep Date: 8/14/2009 | Analyst: KMB       |
| TPH (Gasoline Range)               | ND     |      | 2,500          | mg/Kg | 50                   | 8/20/2009 08:43 PM |
| TPH (Diesel Range)                 | 5,000  |      | 2,500          | mg/Kg | 50                   | 8/20/2009 08:43 PM |
| TPH (Motor Oil Range)              | 29,000 |      | 4,900          | mg/Kg | 50                   | 8/20/2009 08:43 PM |
| Surr: 2-Fluorobiphenyl             | 0      | S    | 70-130         | %REC  | 50                   | 8/20/2009 08:43 PM |
| Surr: Trifluoromethyl benzene      | 0      | S    | 70-130         | %REC  | 50                   | 8/20/2009 08:43 PM |
| <b>BTEX</b>                        |        |      |                |       |                      |                    |
|                                    |        |      | <b>SW8021B</b> |       |                      | Analyst: WLR       |
| Benzene                            | ND     |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 06:03 PM |
| Toluene                            | 0.0031 |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 06:03 PM |
| Ethylbenzene                       | 0.0020 |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 06:03 PM |
| Xylenes, Total                     | ND     |      | 0.0030         | mg/Kg | 1                    | 8/12/2009 06:03 PM |
| Surr: 4-Bromofluorobenzene         | 94.1   |      | 75-131         | %REC  | 1                    | 8/12/2009 06:03 PM |
| Surr: Trifluorotoluene             | 99.4   |      | 73-130         | %REC  | 1                    | 8/12/2009 06:03 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 21-Aug-09

Client: Holly Energy Partners  
Project: Lovington Refinery  
Sample ID: BH#2 5'  
Collection Date: 8/10/2009 09:25 AM

Work Order: 0908241  
Lab ID: 0908241-05  
Matrix: SOIL

| Analyses                           | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|------------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH AND MISCELLANEOUS GCFID</b> |        |      | <b>SW8015M</b> |       | Prep Date: 8/14/2009 | Analyst: KMB       |
| TPH (Gasoline Range)               | ND     |      | 49             | mg/Kg | 1                    | 8/20/2009 02:26 AM |
| TPH (Diesel Range)                 | ND     |      | 49             | mg/Kg | 1                    | 8/20/2009 02:26 AM |
| TPH (Motor Oil Range)              | ND     |      | 97             | mg/Kg | 1                    | 8/20/2009 02:26 AM |
| Surr: 2-Fluorobiphenyl             | 109    |      | 70-130         | %REC  | 1                    | 8/20/2009 02:26 AM |
| Surr: Trifluoromethyl benzene      | 110    |      | 70-130         | %REC  | 1                    | 8/20/2009 02:26 AM |
| <b>BTEX</b>                        |        |      | <b>SW8021B</b> |       |                      | Analyst: WLR       |
| Benzene                            | ND     |      | 0.0010         | mg/Kg | 1                    | 8/14/2009 10:02 AM |
| Toluene                            | ND     |      | 0.0010         | mg/Kg | 1                    | 8/14/2009 10:02 AM |
| Ethylbenzene                       | ND     |      | 0.0010         | mg/Kg | 1                    | 8/14/2009 10:02 AM |
| Xylenes, Total                     | ND     |      | 0.0030         | mg/Kg | 1                    | 8/14/2009 10:02 AM |
| Surr: 4-Bromofluorobenzene         | 100    |      | 75-131         | %REC  | 1                    | 8/14/2009 10:02 AM |
| Surr: Trifluorotoluene             | 108    |      | 73-130         | %REC  | 1                    | 8/14/2009 10:02 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 21-Aug-09

Client: Holly Energy Partners  
Project: Lovington Refinery  
Sample ID: BH#2 10'  
Collection Date: 8/10/2009 09:45 AM

Work Order: 0908241  
Lab ID: 0908241-06  
Matrix: SOIL

| Analyses                           | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|------------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH AND MISCELLANEOUS GCFID</b> |        |      | <b>SW8015M</b> |       | Prep Date: 8/14/2009 | Analyst: KMB       |
| TPH (Gasoline Range)               | ND     |      | 50             | mg/Kg | 1                    | 8/20/2009 02:56 AM |
| TPH (Diesel Range)                 | ND     |      | 50             | mg/Kg | 1                    | 8/20/2009 02:56 AM |
| TPH (Motor Oil Range)              | ND     |      | 99             | mg/Kg | 1                    | 8/20/2009 02:56 AM |
| Surr: 2-Fluorobiphenyl             | 98.0   |      | 70-130         | %REC  | 1                    | 8/20/2009 02:56 AM |
| Surr: Trifluoromethyl benzene      | 102    |      | 70-130         | %REC  | 1                    | 8/20/2009 02:56 AM |
| <b>BTEX</b>                        |        |      | <b>SW8021B</b> |       |                      | Analyst: WLR       |
| Benzene                            | ND     |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 07:08 PM |
| Toluene                            | 0.0065 |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 07:08 PM |
| Ethylbenzene                       | 0.0016 |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 07:08 PM |
| Xylenes, Total                     | 0.0085 |      | 0.0030         | mg/Kg | 1                    | 8/12/2009 07:08 PM |
| Surr: 4-Bromofluorobenzene         | 105    |      | 75-131         | %REC  | 1                    | 8/12/2009 07:08 PM |
| Surr: Trifluorotoluene             | 109    |      | 73-130         | %REC  | 1                    | 8/12/2009 07:08 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



**ALS Laboratory Group**

Date: 21-Aug-09

**Client:** Holly Energy Partners  
**Project:** Lovington Refinery  
**Sample ID:** BH#3 Surface  
**Collection Date:** 8/10/2009 10:10 AM

**Work Order:** 0908241  
**Lab ID:** 0908241-07  
**Matrix:** SOIL

| Analyses                           | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|------------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <hr/>                              |        |      |                |       |                      |                    |
| <b>TPH AND MISCELLANEOUS GCFID</b> |        |      | <b>SW8015M</b> |       | Prep Date: 8/14/2009 | Analyst: KMB       |
| TPH (Gasoline Range)               | ND     |      | 2,500          | mg/Kg | 50                   | 8/20/2009 08:12 PM |
| TPH (Diesel Range)                 | 11,000 |      | 2,500          | mg/Kg | 50                   | 8/20/2009 08:12 PM |
| TPH (Motor Oil Range)              | 42,000 |      | 5,000          | mg/Kg | 50                   | 8/20/2009 08:12 PM |
| Surr: 2-Fluorobiphenyl             | 63.6   | S    | 70-130         | %REC  | 50                   | 8/20/2009 08:12 PM |
| Surr: Trifluoromethyl benzene      | 244    | S    | 70-130         | %REC  | 50                   | 8/20/2009 08:12 PM |
| <hr/>                              |        |      |                |       |                      |                    |
| <b>BTEX</b>                        |        |      | <b>SW8021B</b> |       |                      | Analyst: WLR       |
| Benzene                            | 0.0064 |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 07:41 PM |
| Toluene                            | 0.028  |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 07:41 PM |
| Ethylbenzene                       | 0.030  |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 07:41 PM |
| Xylenes, Total                     | 0.044  |      | 0.0030         | mg/Kg | 1                    | 8/12/2009 07:41 PM |
| Surr: 4-Bromofluorobenzene         | 88.5   |      | 75-131         | %REC  | 1                    | 8/12/2009 07:41 PM |
| Surr: Trifluorotoluene             | 112    |      | 73-130         | %REC  | 1                    | 8/12/2009 07:41 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 21-Aug-09

Client: Holly Energy Partners  
 Project: Lovington Refinery  
 Sample ID: BH#3 5'  
 Collection Date: 8/10/2009 10:20 AM

Work Order: 0908241  
 Lab ID: 0908241-08  
 Matrix: SOIL

| Analyses                           | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|------------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH AND MISCELLANEOUS GCFID</b> |        |      |                |       |                      |                    |
|                                    |        |      | <b>SW8015M</b> |       | Prep Date: 8/14/2009 | Analyst: KMB       |
| TPH (Gasoline Range)               | ND     |      | 50             | mg/Kg | 1                    | 8/20/2009 05:33 PM |
| TPH (Diesel Range)                 | 300    |      | 50             | mg/Kg | 1                    | 8/20/2009 05:33 PM |
| TPH (Motor Oil Range)              | 910    |      | 100            | mg/Kg | 1                    | 8/20/2009 05:33 PM |
| Surr: 2-Fluorobiphenyl             | 125    |      | 70-130         | %REC  | 1                    | 8/20/2009 05:33 PM |
| Surr: Trifluoromethyl benzene      | 99.8   |      | 70-130         | %REC  | 1                    | 8/20/2009 05:33 PM |
| <b>BTEX</b>                        |        |      |                |       |                      |                    |
|                                    |        |      | <b>SW8021B</b> |       |                      | Analyst: WLR       |
| Benzene                            | ND     |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 08:14 PM |
| Toluene                            | 0.0039 |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 08:14 PM |
| Ethylbenzene                       | 0.0016 |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 08:14 PM |
| Xylenes, Total                     | 0.0039 |      | 0.0030         | mg/Kg | 1                    | 8/12/2009 08:14 PM |
| Surr: 4-Bromofluorobenzene         | 108    |      | 75-131         | %REC  | 1                    | 8/12/2009 08:14 PM |
| Surr: Trifluorotoluene             | 110    |      | 73-130         | %REC  | 1                    | 8/12/2009 08:14 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 21-Aug-09

**Client:** Holly Energy Partners  
**Project:** Lovington Refinery  
**Sample ID:** BH#3 10'  
**Collection Date:** 8/10/2009 10:40 AM

**Work Order:** 0908241  
**Lab ID:** 0908241-09  
**Matrix:** SOIL

| Analyses                           | Result        | Qual | Report Limit   | Units        | Dilution Factor      | Date Analyzed      |
|------------------------------------|---------------|------|----------------|--------------|----------------------|--------------------|
| <b>TPH AND MISCELLANEOUS GCFID</b> |               |      | <b>SW8015M</b> |              | Prep Date: 8/14/2009 | Analyst: KMB       |
| TPH (Gasoline Range)               | ND            |      | 49             | mg/Kg        | 1                    | 8/20/2009 10:43 AM |
| TPH (Diesel Range)                 | ND            |      | 49             | mg/Kg        | 1                    | 8/20/2009 10:43 AM |
| TPH (Motor Oil Range)              | ND            |      | 98             | mg/Kg        | 1                    | 8/20/2009 10:43 AM |
| Surr: 2-Fluorobiphenyl             | 101           |      | 70-130         | %REC         | 1                    | 8/20/2009 10:43 AM |
| Surr: Trifluoromethyl benzene      | 100           |      | 70-130         | %REC         | 1                    | 8/20/2009 10:43 AM |
| <b>BTEX</b>                        |               |      | <b>SW8021B</b> |              |                      | Analyst: WLR       |
| Benzene                            | ND            |      | 0.0010         | mg/Kg        | 1                    | 8/12/2009 09:52 PM |
| <b>Toluene</b>                     | <b>0.0045</b> |      | <b>0.0010</b>  | <b>mg/Kg</b> | 1                    | 8/12/2009 09:52 PM |
| Ethylbenzene                       | ND            |      | 0.0010         | mg/Kg        | 1                    | 8/12/2009 09:52 PM |
| <b>Xylenes, Total</b>              | <b>0.0040</b> |      | <b>0.0030</b>  | <b>mg/Kg</b> | 1                    | 8/12/2009 09:52 PM |
| Surr: 4-Bromofluorobenzene         | 95.6          |      | 75-131         | %REC         | 1                    | 8/12/2009 09:52 PM |
| Surr: Trifluorotoluene             | 95.6          |      | 73-130         | %REC         | 1                    | 8/12/2009 09:52 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 21-Aug-09

Client: Holly Energy Partners  
 Project: Lovington Refinery  
 Sample ID: BH#3 15'  
 Collection Date: 8/10/2009 10:55 AM

Work Order: 0908241  
 Lab ID: 0908241-10  
 Matrix: SOIL

| Analyses                           | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|------------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH AND MISCELLANEOUS GCFID</b> |        |      | <b>SW8015M</b> |       | Prep Date: 8/14/2009 | Analyst: KMB       |
| TPH (Gasoline Range)               | ND     |      | 49             | mg/Kg | 1                    | 8/20/2009 11:14 AM |
| TPH (Diesel Range)                 | ND     |      | 49             | mg/Kg | 1                    | 8/20/2009 11:14 AM |
| TPH (Motor Oil Range)              | ND     |      | 97             | mg/Kg | 1                    | 8/20/2009 11:14 AM |
| Surr: 2-Fluorobiphenyl             | 96.3   |      | 70-130         | %REC  | 1                    | 8/20/2009 11:14 AM |
| Surr: Trifluoromethyl benzene      | 99.6   |      | 70-130         | %REC  | 1                    | 8/20/2009 11:14 AM |
| <b>BTEX</b>                        |        |      | <b>SW8021B</b> |       |                      | Analyst: WLR       |
| Benzene                            | ND     |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 10:24 PM |
| Toluene                            | 0.0050 |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 10:24 PM |
| Ethylbenzene                       | ND     |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 10:24 PM |
| Xylenes, Total                     | 0.0031 |      | 0.0030         | mg/Kg | 1                    | 8/12/2009 10:24 PM |
| Surr: 4-Bromofluorobenzene         | 107    |      | 75-131         | %REC  | 1                    | 8/12/2009 10:24 PM |
| Surr: Trifluorotoluene             | 108    |      | 73-130         | %REC  | 1                    | 8/12/2009 10:24 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 21-Aug-09

Client: Holly Energy Partners  
Project: Lovington Refinery  
Sample ID: BH#3 20'  
Collection Date: 8/10/2009 11:30 AM

Work Order: 0908241  
Lab ID: 0908241-11  
Matrix: SOIL

| Analyses                           | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|------------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH AND MISCELLANEOUS GCFID</b> |        |      | <b>SW8015M</b> |       | Prep Date: 8/14/2009 | Analyst: KMB       |
| TPH (Gasoline Range)               | ND     |      | 50             | mg/Kg | 1                    | 8/20/2009 11:45 AM |
| TPH (Diesel Range)                 | ND     |      | 50             | mg/Kg | 1                    | 8/20/2009 11:45 AM |
| TPH (Motor Oil Range)              | ND     |      | 99             | mg/Kg | 1                    | 8/20/2009 11:45 AM |
| Surr: 2-Fluorobiphenyl             | 91.2   |      | 70-130         | %REC  | 1                    | 8/20/2009 11:45 AM |
| Surr: Trifluoromethyl benzene      | 94.6   |      | 70-130         | %REC  | 1                    | 8/20/2009 11:45 AM |
| <b>BTEX</b>                        |        |      | <b>SW8021B</b> |       |                      | Analyst: WLR       |
| Benzene                            | ND     |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 10:57 PM |
| Toluene                            | 0.0033 |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 10:57 PM |
| Ethylbenzene                       | ND     |      | 0.0010         | mg/Kg | 1                    | 8/12/2009 10:57 PM |
| Xylenes, Total                     | ND     |      | 0.0030         | mg/Kg | 1                    | 8/12/2009 10:57 PM |
| Surr: 4-Bromofluorobenzene         | 104    |      | 75-131         | %REC  | 1                    | 8/12/2009 10:57 PM |
| Surr: Trifluorotoluene             | 109    |      | 73-130         | %REC  | 1                    | 8/12/2009 10:57 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 21-Aug-09

Client: Holly Energy Partners

Project: Lovington Refinery

Sample ID: Trip Blank

Collection Date: 8/10/2009 11:30 AM

Work Order: 0908241

Lab ID: 0908241-12

Matrix: WATER

| Analyses                   | Result | Qual | Report Limit   | Units | Dilution Factor | Date Analyzed       |
|----------------------------|--------|------|----------------|-------|-----------------|---------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b> |       |                 | Analyst: <b>WLR</b> |
| Benzene                    | ND     |      | 0.0010         | mg/L  | 1               | 8/17/2009 09:21 AM  |
| Toluene                    | ND     |      | 0.0010         | mg/L  | 1               | 8/17/2009 09:21 AM  |
| Ethylbenzene               | ND     |      | 0.0010         | mg/L  | 1               | 8/17/2009 09:21 AM  |
| Xylenes, Total             | ND     |      | 0.0030         | mg/L  | 1               | 8/17/2009 09:21 AM  |
| Surr: 4-Bromofluorobenzene | 108    |      | 77-129         | %REC  | 1               | 8/17/2009 09:21 AM  |
| Surr: Trifluorotoluene     | 88.8   |      | 75-130         | %REC  | 1               | 8/17/2009 09:21 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 21-Aug-09

**Client:** Navajo Refining Company  
**Work Order:** 0908241  
**Project:** Lovington Refinery

## QC BATCH REPORT

Batch ID: 37729 Instrument ID FID-10 Method: SW8015M

**MBLK** Sample ID: FBLKS1-090814-37729 Units: mg/Kg Analysis Date: 8/19/2009 10:21 PM

Client ID: Run ID: FID-10\_090814A SeqNo: 1749088 Prep Date: 8/14/2009 DF: 1

| Analyte                       | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-------------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Gasoline Range)          | ND     | 50  |         |               |      |               |               |      |           |      |
| TPH (Diesel Range)            | ND     | 50  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)         | ND     | 50  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl        | 29.44  | 0   | 25      | 0             | 118  | 70-130        | 0             |      |           |      |
| Surr: Trifluoromethyl benzene | 29.41  | 0   | 25      | 0             | 118  | 70-130        | 0             |      |           |      |

**LCS** Sample ID: FLCSS1-090814-37729 Units: mg/Kg Analysis Date: 8/19/2009 10:52 PM

Client ID: Run ID: FID-10\_090814A SeqNo: 1749090 Prep Date: 8/14/2009 DF: 1

| Analyte                       | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-------------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Gasoline Range)          | 260.3  | 50  | 250     | 0             | 104  | 70-130        | 0             |      |           |      |
| TPH (Diesel Range)            | 285.8  | 50  | 250     | 0             | 114  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)         | 218.8  | 50  | 250     | 0             | 87.5 | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl        | 32.14  | 0   | 25      | 0             | 129  | 70-130        | 0             |      |           |      |
| Surr: Trifluoromethyl benzene | 29.93  | 0   | 25      | 0             | 120  | 70-130        | 0             |      |           |      |

**LCSD** Sample ID: FLCSDS1-090814-37729 Units: mg/Kg Analysis Date: 8/19/2009 11:22 PM

Client ID: Run ID: FID-10\_090814A SeqNo: 1749092 Prep Date: 8/14/2009 DF: 1

| Analyte                       | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|-------------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| TPH (Gasoline Range)          | 262.9  | 50  | 250     | 0             | 105  | 70-130        | 260.3         | 0.986 | 30        |      |
| TPH (Diesel Range)            | 293.1  | 50  | 250     | 0             | 117  | 70-130        | 285.8         | 2.53  | 30        |      |
| TPH (Motor Oil Range)         | 293.6  | 50  | 250     | 0             | 117  | 70-130        | 218.8         | 29.2  | 30        |      |
| Surr: 2-Fluorobiphenyl        | 32.43  | 0   | 25      | 0             | 130  | 70-130        | 32.14         | 0.898 | 30        |      |
| Surr: Trifluoromethyl benzene | 29.55  | 0   | 25      | 0             | 118  | 70-130        | 29.93         | 1.27  | 30        |      |

**MS** Sample ID: 0908241-01AMS Units: mg/Kg Analysis Date: 8/20/2009 12:23 AM

Client ID: BH #1 5' Run ID: FID-10\_090814A SeqNo: 1749095 Prep Date: 8/14/2009 DF: 1

| Analyte                       | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-------------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Gasoline Range)          | 224.4  | 50  | 247.8   | 0             | 90.6 | 70-130        | 0             |      |           |      |
| TPH (Diesel Range)            | 2185   | 50  | 247.8   | 2413          | -92  | 70-130        | 0             |      |           | SEO  |
| TPH (Motor Oil Range)         | 7350   | 50  | 247.8   | 7997          | -261 | 70-130        | 0             |      |           | SEO  |
| Surr: 2-Fluorobiphenyl        | 28.9   | 0   | 24.78   | 0             | 117  | 70-130        | 0             |      |           |      |
| Surr: Trifluoromethyl benzene | 26.49  | 0   | 24.78   | 0             | 107  | 70-130        | 0             |      |           |      |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
Work Order: 0908241  
Project: Lovington Refinery

## QC BATCH REPORT

Batch ID: 37729 Instrument ID FID-10 Method: SW8015M

MSD Sample ID: 0908241-01AMSD Units: mg/Kg Analysis Date: 8/20/2009 12:54 AM  
Client ID: BH #1 5' Run ID: FID-10\_090814A SeqNo: 1749097 Prep Date: 8/14/2009 DF: 1

| Analyte                       | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-------------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Gasoline Range)          | 209.6  | 50  | 248.5   | 0             | 84.3 | 70-130        | 224.4         | 6.81 | 30        |      |
| TPH (Diesel Range)            | 2027   | 50  | 248.5   | 2413          | -155 | 70-130        | 2185          | 7.5  | 30        | SEO  |
| TPH (Motor Oil Range)         | 6920   | 50  | 248.5   | 7997          | -433 | 70-130        | 7350          | 6.03 | 30        | SEO  |
| Surr: 2-Fluorobiphenyl        | 29.21  | 0   | 24.85   | 0             | 118  | 70-130        | 28.9          | 1.08 | 30        |      |
| Surr: Trifluoromethyl benzene | ND     | 0   | 24.85   | 0             | 0    | 70-130        | 26.49         | 200  | 30        | SR   |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 0908241-01A | 0908241-02A | 0908241-03A |
| 0908241-04A | 0908241-05A | 0908241-06A |
| 0908241-07A | 0908241-08A | 0908241-09A |
| 0908241-10A | 0908241-11A |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 0908241  
 Project: Lovington Refinery

# QC BATCH REPORT

Batch ID: **R80231** Instrument ID **BTEX3** Method: **SW8021B**

**MBLK** Sample ID: **BBLKS1-081209-R80231** Units: **µg/Kg** Analysis Date: **8/12/2009 09:50 AM**

Client ID: Run ID: **BTEX3\_090812A** SeqNo: **1742456** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.23  | 1.0 | 30      | 0             | 107  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 33.04  | 1.0 | 30      | 0             | 110  | 73-130        | 0             |      |           |      |

**LCS** Sample ID: **BLCSS1-081209-R80231** Units: **µg/Kg** Analysis Date: **8/12/2009 08:13 AM**

Client ID: Run ID: **BTEX3\_090812A** SeqNo: **1742455** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.66  | 1.0 | 20      | 0             | 113  | 74-129        | 0             |      |           |      |
| Toluene                    | 20.9   | 1.0 | 20      | 0             | 104  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.09  | 1.0 | 20      | 0             | 105  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 61.72  | 3.0 | 60      | 0             | 103  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 31.26  | 1.0 | 30      | 0             | 104  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 32.71  | 1.0 | 30      | 0             | 109  | 73-130        | 0             |      |           |      |

**MS** Sample ID: **0908240-02AMS** Units: **µg/Kg** Analysis Date: **8/12/2009 11:29 AM**

Client ID: Run ID: **BTEX3\_090812A** SeqNo: **1742458** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 21.25  | 1.0 | 20      | 0             | 106  | 74-129        | 0             |      |           |      |
| Toluene                    | 19.91  | 1.0 | 20      | 0             | 99.5 | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 19.67  | 1.0 | 20      | 0             | 98.4 | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 58.02  | 3.0 | 60      | 0             | 96.7 | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.71  | 1.0 | 30      | 0             | 102  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 32.64  | 1.0 | 30      | 0             | 109  | 73-130        | 0             |      |           |      |

**MSD** Sample ID: **0908240-02AMSD** Units: **µg/Kg** Analysis Date: **8/12/2009 12:01 PM**

Client ID: Run ID: **BTEX3\_090812A** SeqNo: **1742459** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.24  | 1.0 | 20      | 0             | 111  | 74-129        | 21.25         | 4.57 | 30        |      |
| Toluene                    | 20.73  | 1.0 | 20      | 0             | 104  | 75-128        | 19.91         | 4.03 | 30        |      |
| Ethylbenzene               | 20.76  | 1.0 | 20      | 0             | 104  | 73-127        | 19.67         | 5.39 | 30        |      |
| Xylenes, Total             | 61.08  | 3.0 | 60      | 0             | 102  | 74-127        | 58.02         | 5.14 | 30        |      |
| Surr: 4-Bromofluorobenzene | 31.59  | 1.0 | 30      | 0             | 105  | 75-131        | 30.71         | 2.81 | 30        |      |
| Surr: Trifluorotoluene     | 33.01  | 1.0 | 30      | 0             | 110  | 73-130        | 32.64         | 1.15 | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 0908241  
**Project:** Lovington Refinery

## QC BATCH REPORT

Batch ID: **R80231**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 0908241-02A | 0908241-03A | 0908241-04A |
| 0908241-06A | 0908241-07A | 0908241-08A |
| 0908241-09A | 0908241-10A | 0908241-11A |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 0908241  
 Project: Lovington Refinery

# QC BATCH REPORT

Batch ID: **R80307** Instrument ID **BTEX3** Method: **SW8021B**

**MBLK** Sample ID: **BBLKS1-081409-R80307** Units: **µg/Kg** Analysis Date: **8/14/2009 09:29 AM**

Client ID: Run ID: **BTEX3\_090814A** SeqNo: **1744083** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 31.19  | 1.0 | 30      | 0             | 104  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 32.2   | 1.0 | 30      | 0             | 107  | 73-130        | 0             |      |           |      |

**LCS** Sample ID: **BLCSS1-081409-R80307** Units: **µg/Kg** Analysis Date: **8/14/2009 08:57 AM**

Client ID: Run ID: **BTEX3\_090814A** SeqNo: **1744082** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.68  | 1.0 | 20      | 0             | 113  | 74-129        | 0             |      |           |      |
| Toluene                    | 20.29  | 1.0 | 20      | 0             | 101  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 20.74  | 1.0 | 20      | 0             | 104  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 61.38  | 3.0 | 60      | 0             | 102  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.82  | 1.0 | 30      | 0             | 103  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 32.37  | 1.0 | 30      | 0             | 108  | 73-130        | 0             |      |           |      |

**MS** Sample ID: **0908241-05AMS** Units: **µg/Kg** Analysis Date: **8/14/2009 10:35 AM**

Client ID: **BH#2 5'** Run ID: **BTEX3\_090814A** SeqNo: **1744085** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.57  | 1.0 | 20      | 0             | 113  | 74-129        | 0             |      |           |      |
| Toluene                    | 20.21  | 1.0 | 20      | 0             | 101  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 20.72  | 1.0 | 20      | 0             | 104  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 60.83  | 3.0 | 60      | 0             | 101  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 31.33  | 1.0 | 30      | 0             | 104  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 32.74  | 1.0 | 30      | 0             | 109  | 73-130        | 0             |      |           |      |

**MSD** Sample ID: **0908241-05AMSD** Units: **µg/Kg** Analysis Date: **8/14/2009 11:08 AM**

Client ID: **BH#2 5'** Run ID: **BTEX3\_090814A** SeqNo: **1744086** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD   | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|--------|-----------|------|
| Benzene                    | 21.66  | 1.0 | 20      | 0             | 108  | 74-129        | 22.57         | 4.09   | 30        |      |
| Toluene                    | 19.38  | 1.0 | 20      | 0             | 96.9 | 75-128        | 20.21         | 4.15   | 30        |      |
| Ethylbenzene               | 19.99  | 1.0 | 20      | 0             | 100  | 73-127        | 20.72         | 3.56   | 30        |      |
| Xylenes, Total             | 58.89  | 3.0 | 60      | 0             | 98.2 | 74-127        | 60.83         | 3.24   | 30        |      |
| Surr: 4-Bromofluorobenzene | 31.74  | 1.0 | 30      | 0             | 106  | 75-131        | 31.33         | 1.28   | 30        |      |
| Surr: Trifluorotoluene     | 32.74  | 1.0 | 30      | 0             | 109  | 73-130        | 32.74         | 0.0113 | 30        |      |

The following samples were analyzed in this batch: 0908241-01A 0908241-05A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
Work Order: 0908241  
Project: Lovington Refinery

## QC BATCH REPORT

Batch ID: **R80352** Instrument ID **BTEX1** Method: **SW8021B**

|                            |                                        |     |         |               |                       |               |                                          |      |              |      |
|----------------------------|----------------------------------------|-----|---------|---------------|-----------------------|---------------|------------------------------------------|------|--------------|------|
| <b>MBLK</b>                | Sample ID: <b>MEOHW1-081709-R80352</b> |     |         |               | Units: <b>µg/L</b>    |               | Analysis Date: <b>8/17/2009 08:27 AM</b> |      |              |      |
| Client ID:                 | Run ID: <b>BTEX1_090817A</b>           |     |         |               | SeqNo: <b>1744897</b> |               | Prep Date:                               |      | DF: <b>1</b> |      |
| Analyte                    | Result                                 | PQL | SPK Val | SPK Ref Value | %REC                  | Control Limit | RPD Ref Value                            | %RPD | RPD Limit    | Qual |
| Benzene                    | ND                                     | 1.0 |         |               |                       |               |                                          |      |              |      |
| Toluene                    | ND                                     | 1.0 |         |               |                       |               |                                          |      |              |      |
| Ethylbenzene               | ND                                     | 1.0 |         |               |                       |               |                                          |      |              |      |
| Xylenes, Total             | ND                                     | 3.0 |         |               |                       |               |                                          |      |              |      |
| Surr: 4-Bromofluorobenzene | 32.13                                  | 1.0 | 30      | 0             | 107                   | 77-129        | 0                                        |      |              |      |
| Surr: Trifluorotoluene     | 27.99                                  | 1.0 | 30      | 0             | 93.3                  | 75-130        | 0                                        |      |              |      |

|                            |                                        |     |         |               |                       |               |                                          |      |              |      |
|----------------------------|----------------------------------------|-----|---------|---------------|-----------------------|---------------|------------------------------------------|------|--------------|------|
| <b>MBLK</b>                | Sample ID: <b>BBLKW1-081709-R80352</b> |     |         |               | Units: <b>µg/L</b>    |               | Analysis Date: <b>8/17/2009 08:54 AM</b> |      |              |      |
| Client ID:                 | Run ID: <b>BTEX1_090817A</b>           |     |         |               | SeqNo: <b>1744900</b> |               | Prep Date:                               |      | DF: <b>1</b> |      |
| Analyte                    | Result                                 | PQL | SPK Val | SPK Ref Value | %REC                  | Control Limit | RPD Ref Value                            | %RPD | RPD Limit    | Qual |
| Benzene                    | ND                                     | 1.0 |         |               |                       |               |                                          |      |              |      |
| Toluene                    | ND                                     | 1.0 |         |               |                       |               |                                          |      |              |      |
| Ethylbenzene               | ND                                     | 1.0 |         |               |                       |               |                                          |      |              |      |
| Xylenes, Total             | ND                                     | 3.0 |         |               |                       |               |                                          |      |              |      |
| Surr: 4-Bromofluorobenzene | 31.37                                  | 1.0 | 30      | 0             | 105                   | 77-129        | 0                                        |      |              |      |
| Surr: Trifluorotoluene     | 28.08                                  | 1.0 | 30      | 0             | 93.6                  | 75-130        | 0                                        |      |              |      |

|                            |                                        |     |         |               |                       |               |                                          |      |              |      |
|----------------------------|----------------------------------------|-----|---------|---------------|-----------------------|---------------|------------------------------------------|------|--------------|------|
| <b>LCS</b>                 | Sample ID: <b>BLCSW1-081709-R80352</b> |     |         |               | Units: <b>µg/L</b>    |               | Analysis Date: <b>8/17/2009 08:01 AM</b> |      |              |      |
| Client ID:                 | Run ID: <b>BTEX1_090817A</b>           |     |         |               | SeqNo: <b>1744893</b> |               | Prep Date:                               |      | DF: <b>1</b> |      |
| Analyte                    | Result                                 | PQL | SPK Val | SPK Ref Value | %REC                  | Control Limit | RPD Ref Value                            | %RPD | RPD Limit    | Qual |
| Benzene                    | 19.22                                  | 1.0 | 20      | 0             | 96.1                  | 77-126        | 0                                        |      |              |      |
| Toluene                    | 22.43                                  | 1.0 | 20      | 0             | 112                   | 80-124        | 0                                        |      |              |      |
| Ethylbenzene               | 21.94                                  | 1.0 | 20      | 0             | 110                   | 76-125        | 0                                        |      |              |      |
| Xylenes, Total             | 67.29                                  | 3.0 | 60      | 0             | 112                   | 79-124        | 0                                        |      |              |      |
| Surr: 4-Bromofluorobenzene | 31.41                                  | 1.0 | 30      | 0             | 105                   | 77-129        | 0                                        |      |              |      |
| Surr: Trifluorotoluene     | 29.8                                   | 1.0 | 30      | 0             | 99.3                  | 75-130        | 0                                        |      |              |      |

|                            |                                 |     |         |               |                       |               |                                          |      |              |      |
|----------------------------|---------------------------------|-----|---------|---------------|-----------------------|---------------|------------------------------------------|------|--------------|------|
| <b>MS</b>                  | Sample ID: <b>0908295-02AMS</b> |     |         |               | Units: <b>µg/L</b>    |               | Analysis Date: <b>8/17/2009 10:16 AM</b> |      |              |      |
| Client ID:                 | Run ID: <b>BTEX1_090817A</b>    |     |         |               | SeqNo: <b>1744908</b> |               | Prep Date:                               |      | DF: <b>1</b> |      |
| Analyte                    | Result                          | PQL | SPK Val | SPK Ref Value | %REC                  | Control Limit | RPD Ref Value                            | %RPD | RPD Limit    | Qual |
| Benzene                    | 30.84                           | 1.0 | 20      | 9.107         | 109                   | 77-126        | 0                                        |      |              |      |
| Toluene                    | 22.98                           | 1.0 | 20      | 0             | 115                   | 80-124        | 0                                        |      |              |      |
| Ethylbenzene               | 22.28                           | 1.0 | 20      | 0             | 111                   | 76-125        | 0                                        |      |              |      |
| Xylenes, Total             | 77.07                           | 3.0 | 60      | 9.813         | 112                   | 79-124        | 0                                        |      |              |      |
| Surr: 4-Bromofluorobenzene | 34.85                           | 1.0 | 30      | 0             | 116                   | 77-129        | 0                                        |      |              |      |
| Surr: Trifluorotoluene     | 27.51                           | 1.0 | 30      | 0             | 91.7                  | 75-130        | 0                                        |      |              |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 0908241  
Project: Lovington Refinery

## QC BATCH REPORT

Batch ID: R80352 Instrument ID BTEX1 Method: SW8021B

MSD Sample ID: 0908295-02AMSD Units: µg/L Analysis Date: 8/17/2009 10:43 AM

Client ID: Run ID: BTEX1\_090817A SeqNo: 1744911 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 29.75  | 1.0 | 20      | 9.107         | 103  | 77-126        | 30.84         | 3.59  | 20        |      |
| Toluene                    | 21.13  | 1.0 | 20      | 0             | 106  | 80-124        | 22.98         | 8.39  | 20        |      |
| Ethylbenzene               | 20.75  | 1.0 | 20      | 0             | 104  | 76-125        | 22.28         | 7.1   | 20        |      |
| Xylenes, Total             | 73.09  | 3.0 | 60      | 9.813         | 105  | 79-124        | 77.07         | 5.31  | 20        |      |
| Surr: 4-Bromofluorobenzene | 34.58  | 1.0 | 30      | 0             | 115  | 77-129        | 34.85         | 0.767 | 20        |      |
| Surr: Trifluorotoluene     | 26.61  | 1.0 | 30      | 0             | 88.7 | 75-130        | 27.51         | 3.31  | 20        |      |

The following samples were analyzed in this batch: 0908241-12A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

## ALS Laboratory Group

Date: 21-Aug-09

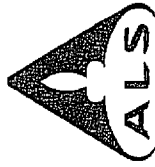
**Client:** Navajo Refining Company  
**Project:** Lovington Refinery  
**WorkOrder:** 0908241

### QUALIFIERS, ACRONYMS, UNITS

| <u>Qualifier</u> | <u>Description</u>                                                        |
|------------------|---------------------------------------------------------------------------|
| *                | Value exceeds Regulatory Limit                                            |
| a                | Not accredited                                                            |
| B                | Analyte detected in the associated Method Blank above the Reporting Limit |
| E                | Value above quantitation range                                            |
| H                | Analyzed outside of Holding Time                                          |
| J                | Analyte detected below quantitation limit                                 |
| n                | Not offered for accreditation                                             |
| ND               | Not Detected at the Reporting Limit                                       |
| O                | Sample amount is > 4 times amount spiked                                  |
| P                | Dual Column results percent difference > 40%                              |
| R                | RPD above laboratory control limit                                        |
| S                | Spike Recovery outside laboratory control limits                          |
| U                | Analyzed but not detected above the MDL                                   |

| <u>Acronym</u> | <u>Description</u>                  |
|----------------|-------------------------------------|
| DUP            | Method Duplicate                    |
| LCS            | Laboratory Control Sample           |
| LCSD           | Laboratory Control Sample Duplicate |
| MBLK           | Method Blank                        |
| MDL            | Method Detection Limit              |
| MQL            | Method Quantitation Limit           |
| MS             | Matrix Spike                        |
| MSD            | Matrix Spike Duplicate              |
| PDS            | Post Digestion Spike                |
| PQL            | Practical Quantitation Limit        |
| SD             | Serial Dilution                     |
| SDL            | Sample Detection Limit              |
| TRRP           | Texas Risk Reduction Program        |

| <u>Units Reported</u> | <u>Description</u>      |
|-----------------------|-------------------------|
| mg/Kg                 | Milligrams per Kilogram |
| mg/L                  | Milligrams per Liter    |



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| Customer Information |  |  |  | Project Information          |  |  |  | ALS Project Manager  |  |  |  |                         |  |  |  |                      |  |  |  | ALS Work Order # <u>06824</u> |  |  |  |                         |  |  |  |                        |  |  |  | Parameter/Method Request for Analysis |  |  |  |                         |  |  |  |                      |  |  |  |                         |  |  |  |                        |  |  |  |                         |  |  |  |                         |  |  |  |                      |  |  |  |                         |  |  |  |                         |  |  |  |                      |  |  |  |                      |  |  |  |                     |  |  |  |                |  |  |  |                     |  |  |  |                     |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |     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 |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     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| Project Name         |  |  |  | Project Number               |  |  |  | Bill To Company      |  |  |  | Invoice To              |  |  |  | City/State/Zip       |  |  |  | Phone                         |  |  |  | Fax                     |  |  |  | e-Mail Address         |  |  |  | Project Name                          |  |  |  | Project Number          |  |  |  | Bill To Company      |  |  |  | Invoice To              |  |  |  | City/State/Zip         |  |  |  | Phone                   |  |  |  | Fax                     |  |  |  | e-Mail Address       |  |  |  | Project Name            |  |  |  | Project Number          |  |  |  | Bill To Company      |  |  |  | Invoice To           |  |  |  | City/State/Zip      |  |  |  | Phone          |  |  |  | Fax                 |  |  |  | e-Mail Address      |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |     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| Purchase Order       |  |  |  | 10450 Stancil Rd., Suite 210 |  |  |  | Houston, Texas 77099 |  |  |  | Tel. +1 281 530 5656    |  |  |  | Fax. +1 281 530 5887 |  |  |  | ALS Laboratory Group          |  |  |  | 3352 128th Ave.         |  |  |  | Holland, MI 49424-9263 |  |  |  | Tel: +1 616 399 6070                  |  |  |  | Fax: +1 616 399 6185    |  |  |  | ALS Laboratory Group |  |  |  | 3352 128th Ave.         |  |  |  | Holland, MI 49424-9263 |  |  |  | Tel: +1 616 399 6070    |  |  |  | Fax: +1 616 399 6185    |  |  |  | ALS Laboratory Group |  |  |  | 3352 128th Ave.         |  |  |  | Holland, MI 49424-9263  |  |  |  | Tel: +1 616 399 6070 |  |  |  | Fax: +1 616 399 6185 |  |  |  |                     |  |  |  |                |  |  |  |                     |  |  |  |                     |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |     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|  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  | 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 |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     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    |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |
| Company Name         |  |  |  | Navajo Refining Company      |  |  |  | Darrell Moore        |  |  |  | P.O. Box 159            |  |  |  | Artesia, NM 88211    |  |  |  | (505) 748-3311                |  |  |  | (505) 746-5421          |  |  |  | dgboyner@SES-NM.com    |  |  |  | Lovington Refinery                    |  |  |  | Navajo Refining Company |  |  |  | Darrell Moore        |  |  |  | P.O. Box 159            |  |  |  | Artesia, NM 88211      |  |  |  | (505) 748-3311          |  |  |  | (505) 746-5421          |  |  |  | dgboyner@SES-NM.com  |  |  |  | Lovington Refinery      |  |  |  | Navajo Refining Company |  |  |  | Darrell Moore        |  |  |  | P.O. Box 159         |  |  |  | Artesia, NM 88211   |  |  |  | (505) 748-3311 |  |  |  | (505) 746-5421      |  |  |  | dgboyner@SES-NM.com |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |                |  |  |  |           |  |  |  |            |  |  |  |            |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  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| Send Report To       |  |  |  | Darrell Moore                |  |  |  | P.O. Box 159         |  |  |  | Artesia, NM 88211       |  |  |  | (505) 748-3311       |  |  |  | (505) 746-5421                |  |  |  | dgboyner@SES-NM.com     |  |  |  | Lovington Refinery     |  |  |  | Navajo Refining Company               |  |  |  | Darrell Moore           |  |  |  | P.O. Box 159         |  |  |  | Artesia, NM 88211       |  |  |  | (505) 748-3311         |  |  |  | (505) 746-5421          |  |  |  | dgboyner@SES-NM.com     |  |  |  | Lovington Refinery   |  |  |  | Navajo Refining Company |  |  |  | Darrell Moore           |  |  |  | P.O. Box 159         |  |  |  | Artesia, NM 88211    |  |  |  | (505) 748-3311      |  |  |  | (505) 746-5421 |  |  |  | dgboyner@SES-NM.com |  |  |  |                     |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |                |  |  |  |           |  |  |  |            |  |  |  |            |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  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|  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  | 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|  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     | 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  |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  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| City/State/Zip       |  |  |  | Artesia, NM 88211            |  |  |  | (505) 748-3311       |  |  |  | (505) 746-5421          |  |  |  | dgboyner@SES-NM.com  |  |  |  | Lovington Refinery            |  |  |  | Navajo Refining Company |  |  |  | Darrell Moore          |  |  |  | P.O. Box 159                          |  |  |  | Artesia, NM 88211       |  |  |  | (505) 748-3311       |  |  |  | (505) 746-5421          |  |  |  | dgboyner@SES-NM.com    |  |  |  | Lovington Refinery      |  |  |  | Navajo Refining Company |  |  |  | Darrell Moore        |  |  |  | P.O. Box 159            |  |  |  | Artesia, NM 88211       |  |  |  | (505) 748-3311       |  |  |  | (505) 746-5421       |  |  |  | dgboyner@SES-NM.com |  |  |  |                |  |  |  |                     |  |  |  |                     |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |                |  |  |  |           |  |  |  |            |  |  |  |            |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  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|  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  | 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|  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     | 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| Phone                |  |  |  | (505) 748-3311               |  |  |  | (505) 746-5421       |  |  |  | dgboyner@SES-NM.com     |  |  |  | Lovington Refinery   |  |  |  | Navajo Refining Company       |  |  |  | Darrell Moore           |  |  |  | P.O. Box 159           |  |  |  | Artesia, NM 88211                     |  |  |  | (505) 748-3311          |  |  |  | (505) 746-5421       |  |  |  | dgboyner@SES-NM.com     |  |  |  | Lovington Refinery     |  |  |  | Navajo Refining Company |  |  |  | Darrell Moore           |  |  |  | P.O. Box 159         |  |  |  | Artesia, NM 88211       |  |  |  | (505) 748-3311          |  |  |  | (505) 746-5421       |  |  |  | dgboyner@SES-NM.com  |  |  |  |                     |  |  |  |                |  |  |  |                     |  |  |  |                     |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |                |  |  |  |           |  |  |  |            |  |  |  |            |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |   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|     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  | 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| Fax                  |  |  |  | (505) 748-3311               |  |  |  | (505) 746-5421       |  |  |  | dgboyner@SES-NM.com     |  |  |  | Lovington Refinery   |  |  |  | Navajo Refining Company       |  |  |  | Darrell Moore           |  |  |  | P.O. Box 159           |  |  |  | Artesia, NM 88211                     |  |  |  | (505) 748-3311          |  |  |  | (505) 746-5421       |  |  |  | dgboyner@SES-NM.com     |  |  |  | Lovington Refinery     |  |  |  | Navajo Refining Company |  |  |  | Darrell Moore           |  |  |  | P.O. Box 159         |  |  |  | Artesia, NM 88211       |  |  |  | (505) 748-3311          |  |  |  | (505) 746-5421       |  |  |  | dgboyner@SES-NM.com  |  |  |  |                     |  |  |  |                |  |  |  |                     |  |  |  |                     |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |                |  |  |  |           |  |  |  |            |  |  |  |            |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |   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| e-Mail Address       |  |  |  | dgboyner@SES-NM.com          |  |  |  | Lovington Refinery   |  |  |  | Navajo Refining Company |  |  |  | Darrell Moore        |  |  |  | P.O. Box 159                  |  |  |  | Artesia, NM 88211       |  |  |  | (505) 748-3311         |  |  |  | (505) 746-5421                        |  |  |  | dgboyner@SES-NM.com     |  |  |  | Lovington Refinery   |  |  |  | Navajo Refining Company |  |  |  | Darrell Moore          |  |  |  | P.O. Box 159            |  |  |  | Artesia, NM 88211       |  |  |  | (505) 748-3311       |  |  |  | (505) 746-5421          |  |  |  | dgboyner@SES-NM.com     |  |  |  |                      |  |  |  |                      |  |  |  |                     |  |  |  |                |  |  |  |                     |  |  |  |                     |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |               |  |  |  |          |  |  |  |           |  |  |  |           |  |  |  |                |  |  |  |           |  |  |  |            |  |  |  |            |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |   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| Sample Description   |  |  |  | BH #1 5'                     |  |  |  | BH #1 10'            |  |  |  | BH #1 15'               |  |  |  | BH #2 Surface        |  |  |  | BH #2 5'                      |  |  |  | BH #2 10'               |  |  |  | BH #3 Surface          |  |  |  | BH #3 5'                              |  |  |  | BH #3 10'               |  |  |  | BH #3 15'            |  |  |  | BH #4 Surface           |  |  |  | BH #4 5'               |  |  |  | BH #4 10'               |  |  |  | BH #4 15'               |  |  |  | BH #5 Surface        |  |  |  | BH #5 5'                |  |  |  | BH #5 10'               |  |  |  | BH #5 15'            |  |  |  | BH #6 Surface        |  |  |  | BH #6 5'            |  |  |  | BH #6 10'      |  |  |  | BH #6 15'           |  |  |  | BH #7 Surface       |  |  |  | BH #7 5' |  |  |  | BH #7 10' |  |  |  | BH #7 15' |  |  |  | BH #8 Surface |  |  |  | BH #8 5' |  |  |  | BH #8 10' |  |  |  | BH #8 15' |  |  |  | BH #9 Surface |  |  |  | BH #9 5' |  |  |  | BH #9 10' |  |  |  | BH #9 15' |  |  |  | BH #10 Surface |  |  |  | BH #10 5' |  |  |  | BH #10 10' |  |  |  | BH #10 15' |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  | 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 |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |     |  |  |  |   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     |  |  |  | 33        |  |  |  | 34        |  |  |  | 35             |  |  |  | 36        |  |  |  | 37         |  |  |  | 38         |  |  |  | 39 |  |  |  | 40 |  |  |  | 41 |  |  |  | 42 |  |  |  | 43 |  |  |  | 44 |  |  |  | 45 |  |  |  | 46 |  |  |  | 47 |  |  |  | 48 |  |  |  | 49 |  |  |  | 50 |  |  |  | 51 |  |  |  | 52 |  |  |  | 53 |  |  |  | 54 |  |  |  | 55 |  |  |  | 56 |  |  |  | 57 |  |  |  | 58 |  |  |  | 59 |  |  |  | 60 |  |  |  | 61 |  |  |  | 62 |  |  |  | 63 |  |  |  | 64 |  |  |  | 65 |  |  |  | 66 |  |  |  | 67 |  |  |  | 68 |  |  |  | 69 |  |  |  | 70 |  |  |  | 71 |  |  |  | 72 |  |  |  | 73 |  |  |  | 74 |  |  |  | 75 |  |  |  | 76 |  |  |  | 77 |  |  |  | 78 |  |  |  | 79 |  |  |  | 80 |  |  |  | 81 |  |  |  | 82 |  |  |  | 83 |  |  |  | 84 |  |  |  | 85 |  |  |  | 86 |  |  |  | 87 |  |  |  | 88 |  |  |  | 89 |  |  |  | 90 |  |  |  | 91 |  |  |  | 92 |  |  |  | 93 |  |  |  | 94 |  |  |  | 95 |  |  |  | 96 |  |  |  | 97 |  |  |  | 98 |  |  |  | 99 |  |  |  | 100 |  |  |  | 101 |  |  |  | 102 |  |  |  | 103 |  |  |  | 104 |  |  |  | 105 |  |  |  | 106 |  |  |  | 107 |  |  |  | 108 |  |  |  | 109 |  |  |  | 110 |  |  |  | 111 |  |  |  | 112 |  |  |  | 113 |  |  |  | 114 |  |  |  | 115 |  |  |  | 116 |  |  |  | 117 |  |  |  | 118 |  |  |  | 119 |  |  |  | 120 |  |  |  | 121 |  |  |  | 122 |  |  |  | 123 |  |  |  | 124 |  |  |  | 125 |  |  |  | 126 |  |  |  | 127 |  |  |  | 128 |  |  |  | 129 |  |  |  | 130 |  |  |  | 131 |  |  |  | 132 |  |  |  | 133 |  |  |  | 134 |  |  |  | 135 |  |  |  | 136 |  |  |  | 137 |  |  |  | 138 |  |  |  | 139 |  |  |  | 140 |  |  |  | 141 |  |  |  | 142 |  |  |  | 143 |  |  |  | 144 |  |  |  | 145 |  |  |  | 146 |  |  |  | 147 |  |  |  | 148 |  |  |  | 149 |  |  |  | 150 |  |  |  | 151 |  |  |  | 152 |  |  |  | 153 |  |  |  | 154 |  |  |  | 155 |  |  |  | 156 |  |  |  | 157 |  |  |  | 158 |  |  |  | 159 |  |  |  | 160 |  |  |  | 161 |  |  |  | 162 |  |  |  | 163 |  |  |  | 164 |  |  |  | 165 |  |  |  | 166 |  |  |  | 167 |  |  |  | 168 |  |  |  | 169 |  |  |  | 170 |  |  |  | 171 |  |  |  | 172 |  |  |  | 173 |  |  |  | 174 |  |  |  | 175 |  |  |  | 176 |  |  |  | 177 |  |  |  | 178 |  |  |  | 179 |  |  |  | 180 |  |  |  | 181 |  |  |  | 182 |  |  |  | 183 |  |  |  | 184 |  |  |  | 185 |  |  |  | 186 |  |  |  | 187 |  |  |  | 188 |  |  |  | 189 |  |  |  | 190 |  |  |  | 191 |  |  |  | 192 |  |  |  | 193 |  |  |  | 194 |  |  |  | 195 |  |  |  | 196 |  |  |  | 197 |  |  |  | 198 |  |  |  | 199 |  |  |  | 200 |  |  |  | 201 |  |  |  | 202 |  |  |  | 203 |  |  |  | 204 |  |  |  | 205 |  |  |  | 206 |  |  |  | 207 |  |  |  | 208 |  |  |  | 209 |  |  |  | 210 |  |  |  | 211 |  |  |  | 212 |  |  |  | 213 |  |  |  | 214 |  |  |  | 215 |  |  |  | 216 |  |  |  | 217 |  |  |  | 218 |  |  |  | 219 |  |  |  | 220 |  |  |  | 221 |  |  |  | 222 |  |  |  | 223 |  |  |  | 224 |  |  |  | 225 |  |  |  | 226 |  |  |  | 227 |  |  |  | 228 |  |  |  | 229 |  |  |  | 230 |  |  |  | 231 |  |  |  | 232 |  |  |  | 233 |  |  |  | 234 |  |  |  | 235 |  |  |  | 236 |  |  |  | 237 |  |  |  | 238 |  |  |  | 239 |  |  |  | 240 |  |  |  | 241 |  |  |  | 242 |  |  |  | 243 |  |  |  | 244 |  |  |  | 245 |  |  |  | 246 |  |  |  | 247 |  |  |  | 248 |  |  |  | 249 |  |  |  | 250 |  |  |  | 251 |  |  |  | 252 |  |  |  | 253 |  |  |  | 254 |  |  |  | 255 |  |  |  | 256 |  |  |  | 257 |  |  |  | 258 |  |  |  | 259 |  |  |  | 260 |  |  |  | 261 |  |  |  | 262 |  |  |  | 263 |  |  |  | 264 |  |  |  | 265 |  |  |  | 266 |  |  |  | 267 |  |  |  | 268 |  |  |  | 269 |  |  |  | 270 |  |  |  | 271 |  |  |  | 272 |  |  |  | 273 |  |  |  | 274 |  |  |  | 275 |  |  |  | 276 |  |  |  | 277 |  |  |  | 278 |  |  |  | 279 |  |  |  | 280 |  |  |  | 281 |  |  |  | 282 |  |  |  | 283 |  |  |  | 284 |  |  |  | 285 |  |  |  | 286 |  |  |  | 287 |  |  |  | 288 |  |  |  | 289 |  |  |  | 290 |  |  |  | 291 |  |  |  | 292 |  |  |  | 293 |  |  |  | 294 |  |  |  | 295 |  |  |  | 296 |  |  |  | 297 |  |  |  | 298 |  |  |  | 299 |  |  |  | 300 |  |  |  | 301 |  |  |  | 302 |  |  |  | 303 |  |  |  | 304 |  |  |  | 305 |  |  |  | 306 |  |  |  | 307 |  |  |  | 308 |  |  |  | 309 |  |  |  | 310 |  |  |  | 311 |  |  |  | 312 |  |  |  | 313 |  |  |  | 314 |  |  |  | 315 |  |  |  | 316 |  |  |  | 317 |  |  |  | 318 |  |  |  | 319 |  |  |  | 320 |  |  |  | 321 |  |  |  | 322 |  |  |  | 323 |  |  |  | 324 |  |  |  | 325 |  |  |  | 326 |  |  |  | 327 |  |  |  | 328 |  |  |  | 329 |  |  |  | 330 |  |  |  | 331 |  |  |  | 332 |  |  |  | 333 |  |  |  | 334 |  |  |  | 335 |  |  |  | 336 |  |  |  | 337 |  |  |  | 338 |  |  |  | 339 |  |  |  | 340 |  |  |  | 341 |  |  |  | 342 |  |  |  | 343 |  |  |  | 344 |  |  |  | 345 |  |  |  | 346 |  |  |  | 347 |  |  |  | 348 |  |  |  | 349 |  |  |  | 350 |  |  |  | 351 |  |  |  | 352 |  |  |  | 353 |  |  |  | 354 |  |  |  | 355 |  |  |  | 356 |  |  |  | 357 |  |  |  | 358 |  |  |  | 359 |  |  |  | 360 |  |  |  | 361 |  |  |  | 362 |  |  |  | 363 |  |  |  | 364 |  |  |  | 365 |  |  |  | 366 |  |  |  | 367 |  |  |  | 368 |  |  |  | 369 |  |  |  | 370 |  |  |  | 371 |  |  |  | 372 |  |  |  | 373 |  |  |  | 374 |  |  |  | 375 |  |  |  | 376 |  |  |  | 377 |  |  |  | 378 |  |  |  | 379 |  |  |  | 380 |  |  |  | 381 |  |  |  | 382 |  |  |  | 383 |  |  |  | 384 |  |  |  | 385 |  |  |  | 386 |  |  |  | 387 |  |  |  | 388 |  |  |  | 389 |  |  |  | 390 |  |  |  | 391 |  |  |  | 392 |  |  |  | 393 |  |  |  | 394 |  |  |  | 395 |  |  |  | 396 |  |  |  | 397 |  |  |  | 398 |  |  |  | 399 |  |  |  | 400 |  |  |  | 401 |  |  |  | 402 |  |  |  | 403 |  |  |  | 404 |  |  |  | 405 |  |  |  | 406 |  |  |  | 407 |  |  |  | 408 |  |  |  | 409 |  |  |  | 410 |  |  |  | 411 |  |  |  | 412 |  |  |  | 413 |  |  |  | 414 |  |  |  | 415 |  |  |  | 416 |  |  |  | 417 |  |  |  | 418 |  |  |  | 419 |  |  |  | 420 |  |  |  | 421 |  |  |  | 422 |  |  |  | 423 |  |  |  | 424 |  |  |  | 425 |  |  |  | 426 |  |  |  | 427 |  |  |  | 428 |  |  |  | 429 |  |  |  | 430 |  |  |  | 431 |  |  |  | 432 |  |  |  | 433 |  |  |  | 434 |  |  |  | 435 |  |  |  | 436 |  |  |  | 437 |  |  |  | 438 |  |  |  | 439 |  |  |  | 440 |  |  |  | 441 |  |  |  | 442 |  |  |  | 443 |  |  |  | 444 |  |  |  | 445 |  |  |  | 446 |  |  |  | 447 |  |  |  | 448 |  |  |  | 449 |  |  |  | 450 |  |  |  | 451 |  |  |  | 452 |  |  |  | 453 |  |  |  | 454 |  |  |  | 455 |  |  |  | 456 |  |  |  | 457 |  |  |  | 458 |  |  |  | 459 |  |  |  | 460 |  |  |  | 461 |  |  |  | 462 |  |  |  | 463 |  |  |  | 464 |  |  |  | 465 |  |  |  | 466 |  |  |  | 467 |  |  |  | 468 |  |  |  | 469 |  |  |  | 470 |  |  |  | 471 |  |  |  | 472 |  |  |  | 473 |  |  |  | 474 |  |  |  | 475 |  |  |  | 476 |  |  |  | 477 |  |  |  | 478 |  |  |  | 479 |  |  |  | 480 |  |  |  | 481 |  |  |  | 482 |  |  |  | 483 |  |  |  | 484 |  |  |  | 485 |  |  |  | 486 |  |  |  | 487 |  |  |  | 488 |  |  |  | 489 |  |  |  | 490 |  |  |  | 491 |  |  |  | 492 |  |  |  | 493 |  |  |  | 494 |  |  |  | 495 |  |  |  | 496 |  |  |  | 497 |  |  |  | 498 |  |  |  | 499 |  |  |  | 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|  | 567 |  |  |  | 568 |  |  |  | 569 |  |  |  | 570 |  |  |  | 571 |  |  |  | 572 |  |  |  | 573 |  |  |  | 574 |  |  |  | 575 |  |  |  | 576 |  |  |  | 577 |  |  |  | 578 |  |  |  | 579 |  |  |  | 580 |  |  |  | 581 |  |  |  | 582 |  |  |  | 583 |  |  |  | 584 |  |  |  | 585 |  |  |  | 586 |  |  |  | 587 |  |  |  | 588 |  |  |  | 589 |  |  |  | 590 |  |  |  | 591 |  |  |  | 592 |  |  |  | 593 |  |  |  | 594 |  |  |  | 595 |  |  |  | 596 |  |  |  | 597 |  |  |  | 598 |  |  |  | 599 |  |  |  | 600 |  |  |  | 601 |  |  |  | 602 |  |  |  | 603 |  |  |  | 604 |  |  |  | 605 |  |  |  | 606 |  |  |  | 607 |  |  |  | 608 |  |  |  | 609 |  |  |  | 610 |  |  |  | 611 |  |  |  | 612 |  |  |  | 613 |  |  |  | 614 |  |  |  | 615 |  |  |  | 616 |  |  |  | 617 |  |  |  | 618 |  |  |  | 619 |  |  |  | 620 |  |  |  | 621 |  |  |  | 622 |  |  |  | 623 |  |  |  | 624 |  |  |  | 625 |  |  |  | 626 |  |  |  | 627 |  |  |  | 628 |  |  |  | 629 |  |  |  | 630 |  |  |  | 631 |  |  |  | 632 |  |  |  | 633 |  |  |  | 634 |  |  |  | 635 |  |  |  | 636 |  |  |  | 637 |  |  |  | 638 |  |  |  | 639 |  |  |  | 640 |  |  |  | 641 |  |  |  | 642 |  |  |  | 643 |  |  |  | 644 |  |  |  | 645 |  |  |  | 646 |  |  |  | 647 |  |  |  | 648 |  |  |  | 649 |  |  |  | 650 |  |  |  | 651 |  |  |  | 652 |  |  |  | 653 |  |  |  | 654 |  |  |  | 655 |  |  |  | 656 |  |  |  | 657 |  |  |  | 658 |  |  |  | 659 |  |  |  | 660 |  |  |  | 661 |  |  |  | 662 |  |  |  | 663 |  |  |  | 664 |  |  |  | 665 |  |  |  | 666 |  |  |  | 667 |  |  |  | 668 |  |  |  | 669 |  |  |  | 670 |  |  |  | 671 |  |  |  | 672 |  |  |  | 673 |  |  |  | 674 |  |  |  | 675 |  |  |  | 676 |  |  |  | 677 |  |  |  | 678 |  |  |  | 679 |  |  |  | 680 |  |  |  | 681 |  |  |  | 682 |  |  |  | 683 |  |  |  | 684 |  |  |  | 685 |  |  |  | 686 |  |  |  | 687 |  |  |  | 688 |  |  |  | 689 |  |  |  | 690 |  |  |  | 691 |  |  |  | 692 |  |  |  | 693 |  |  |  | 694 |  |  |  | 695 |  |  |  | 696 |  |  |  | 697 |  |  |  | 698 |  |  |  | 699 |  |  |  | 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| Customer Information |  |  |  | Project Information     |  |  |  | ALS Work Order #                      |  |  |  |        |  |  |  |       |  |  |  |           |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  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| Project Number       |  |  |  | BTEX                    |  |  |  | VOC (2005) Select TPH 418.1           |  |  |  |        |  |  |  |       |  |  |  |           |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  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| e-Mail Address       |  |  |  | dgmoyer@SES-NM.com      |  |  |  |                                       |  |  |  |        |  |  |  |       |  |  |  |           |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  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| BJ |  |  |  | BK |  |  |  | BL |  |  |  | BM |  |  |  | BN |  |  |  | BO |  |  |  | BP |  |  |  | BQ |  |  |  | BR |  |  |  | BS |  |  |  | BT |  |  |  | BU |  |  |  | BV |  |  |  | BW |  |  |  | BX |  |  |  | BY |  |  |  | BZ |  |  |  | CA |  |  |  | CB |  |  |  | CC |  |  |  | CD |  |  |  | CE |  |  |  | CF |  |  |  | CG |  |  |  | CH |  |  |  | CI |  |  |  | CJ |  |  |  | CK |  |  |  | CL |  |  |  | CM |  |  |  | CN |  |  |  | CO |  |  |  | CP |  |  |  | CQ |  |  |  | CR |  |  |  | CS |  |  |  | CT |  |  |  | CU |  |  |  | CV |  |  |  | CW |  |  |  | CX |  |  |  | CY |  |  |  | CZ |  |  |  | DA |  |  |  | DB |  |  |  | DC |  |  |  | DD |  |  |  | DE |  |  |  | DF |  |  |  | DG |  |  |  | DH |  |  |  | DI |  |  |  | DJ |  |  |  | DK |  |  |  | DL |  |  |  | DM |  |  |  | DN |  |  |  | DO |  |  |  | DP |  |  |  | DQ |  |  |  | DR |  |  |  | DS |  |  |  | DT |  |  |  | DU |  |  |  | DV |  |  |  | DW |  |  |  | DX |  |  |  | DY |  |  |  | DZ |  |  |  | EA |  |  |  | EB |  |  |  | EC |  |  |  | ED |  |  |  | EE |  |  |  | EF |  |  |  | EG |  |  |  | EH |  |  |  | EI |  |  |  | EJ |  |  |  | EK |  |  |  | EL |  |  |  | EM |  |  |  | EN |  |  |  | EO |  |  |  | EP |  |  |  | EQ |  |  |  | ER |  |  |  | ES |  |  |  | ET |  |  |  | EU |  |  |  | EV |  |  |  | EW |  |  |  | EX |  |  |  | EY |  |  |  | EZ |  |  |  | FA |  |  |  | FB |  |  |  | FC |  |  |  | FD |  |  |  | FE |  |  |  | FF |  |  |  | FG |  |  |  | FH |  |  |  | FI |  |  |  | FJ |  |  |  | FK |  |  |  | FL |  |  |  | FM |  |  |  | FN |  |  |  | FO |  |  |  | FP |  |  |  | FQ |  |  |  | FR |  |  |  | FS |  |  |  | FT |  |  |  | FU |  |  |  | FV |  |  |  | FW |  |  |  | FX |  |  |  | FY |  |  |  | FZ |  |  |  | GA |  |  |  | GB |  |  |  | GC |  |  |  | GD |  |  |  | GE |  |  |  | GF |  |  |  | GG |  |  |  | GH |  |  |  | GI |  |  |  | GJ |  |  |  | GK |  |  |  | GL |  |  |  | GM |  |  |  | GN |  |  |  | GO |  |  |  | GP |  |  |  | GQ |  |  |  | GR |  |  |  | GS |  |  |  | GT |  |  |  | GU |  |  |  | GV |  |  |  | GW |  |  |  | GX |  |  |  | GY |  |  |  | GZ |  |  |  | HA |  |  |  | HB |  |  |  | HC |  |  |  | HD |  |  |  | HE |  |  |  | HF |  |  |  | HG |  |  |  | HH |  |  |  | HI |  |  |  | HJ |  |  |  | HK |  |  |  | HL |  |  |  | HM |  |  |  | HN |  |  |  | HO |  |  |  | HP |  |  |  | HQ |  |  |  | HR |  |  |  | HS |  |  |  | HT |  |  |  | HU |  |  |  | HV |  |  |  | HW |  |  |  | HX |  |  |  | HY |  |  |  | HZ |  |  |  | IA |  |  |  | IB |  |  |  | IC |  |  |  | ID |  |  |  | IE |  |  |  | IF |  |  |  | IG |  |  |  | IH |  |  |  | II |  |  |  | IJ |  |  |  | IK |  |  |  | IL |  |  |  | IM |  |  |  | IN |  |  |  | IO |  |  |  | IP |  |  |  | IQ |  |  |  | IR |  |  |  | IS |  |  |  | IT |  |  |  | IU |  |  |  | IV |  |  |  | IW |  |  |  | IX |  |  |  | IY |  |  |  | IZ |  |  |  | JA |  |  |  | JB |  |  |  | JC |  |  |  | JD |  |  |  | JE |  |  |  | JF |  |  |  | JG |  |  |  | JH |  |  |  | JI |  |  |  | JJ |  |  |  | JK |  |  |  | JL |  |  |  | JM |  |  |  | JN |  |  |  | JO |  |  |  | JP |  |  |  | JQ |  |  |  | JR |  |  |  | JS |  |  |  | JT |  |  |  | JU |  |  |  | JV |  |  |  | JW |  |  |  | JX |  |  |  | JY |  |  |  | JZ |  |  |  | KA |  |  |  | KB |  |  |  | KC |  |  |  | KD |  |  |  | KE |  |  |  | KF |  |  |  | KG |  |  |  | KH |  |  |  | KI |  |  |  | KJ |  |  |  | KK |  |  |  | KL |  |  |  | KM |  |  |  | KN |  |  |  | KO |  |  |  | KP |  |  |  | KQ |  |  |  | KR |  |  |  | KS |  |  |  | KT |  |  |  | KU |  |  |  | KV |  |  |  | KW |  |  |  | KX |  |  |  | KY |  |  |  | KZ |  |  |  | LA |  |  |  | LB |  |  |  | LC |  |  |  | LD |  |  |  | LE |  |  |  | LF |  |  |  | LG |  |  |  | LH |  |  |  | LI |  |  |  | LJ |  |  |  | LK |  |  |  | LL |  |  |  | LM |  |  |  | LN |  |  |  | LO |  |  |  | LP |  |  |  | LQ |  |  |  | LR |  |  |  | LS |  |  |  | LT |  |  |  | LU |  |  |  | LV |  |  |  | LW |  |  |  | LX |  |  |  | LY |  |  |  | LZ |  |  |  | MA |  |  |  | MB |  |  |  | MC |  |  |  | MD |  |  |  | ME |  |  |  | MF |  |  |  | MG |  |  |  | MH |  |  |  | MI |  |  |  | MJ |  |  |  | MK |  |  |  | ML |  |  |  | MM |  |  |  | MN |  |  |  | MO |  |  |  | MP |  |  |  | MQ |  |  |  | MR |  |  |  | MS |  |  |  | MT |  |  |  | MU |  |  |  | MV |  |  |  | MW |  |  |  | MX |  |  |  | MY |  |  |  | MZ |  |  |  | NA |  |  |  | NB |  |  |  | NC |  |  |  | ND |  |  |  | NE |  |  |  | NF |  |  |  | NG |  |  |  | NH |  |  |  | NI |  |  |  | NJ |  |  |  | NK |  |  |  | NL |  |  |  | NM |  |  |  | NN |  |  |  | NO |  |  |  | NP |  |  |  | NQ |  |  |  | NR |  |  |  | NS |  |  |  | NT |  |  |  | NU |  |  |  | NV |  |  |  | NW |  |  |  | NX |  |  |  | NY |  |  |  | NZ |  |  |  | OA |  |  |  | OB |  |  |  | OC |  |  |  | OD |  |  |  | OE |  |  |  | OF |  |  |  | OG |  |  |  | OH |  |  |  | OI |  |  |  | OJ |  |  |  | OK |  |  |  | OL |  |  |  | OM |  |  |  | ON |  |  |  | OO |  |  |  | OP |  |  |  | OQ |  |  |  | OR |  |  |  | OS |  |  |  | OT |  |  |  | OU |  |  |  | OV |  |  |  | OW |  |  |  | OX |  |  |  | OY |  |  |  | OZ |  |  |  | PA |  |  |  | PB |  |  |  | PC |  |  |  | PD |  |  |  | PE |  |  |  | PF |  |  |  | PG |  |  |  | PH |  |  |  | PI |  |  |  | PJ |  |  |  | PK |  |  |  | PL |  |  |  | PM |  |  |  | PN |  |  |  | PO |  |  |  | PP |  |  |  | PQ |  |  |  | PR |  |  |  | PS |  |  |  | PT |  |  |  | PU |  |  |  | PV |  |  |  | PW |  |  |  | PX |  |  |  | PY |  |  |  | PZ |  |  |  | QA |  |  |  | QB |  |  |  | QC |  |  |  | QD |  |  |  | QE |  |  |  | QF |  |  |  | QG |  |  |  | QH |  |  |  | QI |  |  |  | QJ |  |  |  | QK |  |  |  | QL |  |  |  | QM |  |  |  | QN |  |  |  | QO |  |  |  | QP |  |  |  | QQ |  |  |  | QR |  |  |  | QS |  |  |  | QT |  |  |  | QU |  |  |  | QV |  |  |  | QW |  |  |  | QX |  |  |  | QY |  |  |  | QZ |  |  |  | RA |  |  |  | RB |  |  |  | RC |  |  |  | RD |  |  |  | RE |  |  |  | RF |  |  |  | RG |  |  |  | RH |  |  |  | RI |  |  |  | RJ |  |  |  | RK |  |  |  | RL |  |  |  | RM |  |  |  | RN |  |  |  | RO |  |  |  | RP |  |  |  | RQ |  |  |  | RR |  |  |  | RS |  |  |  | RT |  |  |  | RU |  |  |  | RV |  |  |  | RW |  |  |  | RX |  |  |  | RY |  |  |  | RZ |  |  |  | SA |  |  |  | SB |  |  |  | SC |  |  |  | SD |  |  |  | SE |  |  |  | SF |  |  |  | SG |  |  |  | SH |  |  |  | SI |  |  |  | SJ |  |  |  | SK |  |  |  | SL |  |  |  | SM |  |  |  | SN |  |  |  | SO |  |  |  | SP |  |  |  | SQ |  |  |  | SR |  |  |  | SS |  |  |  | ST |  |  |  | SU |  |  |  | SV |  |  |  | SW |  |  |  | SX |  |  |  | SY |  |  |  | SZ |  |  |  | TA |  |  |  | TB |  |  |  | TC |  |  |  | TD |  |  |  | TE |  |  |  | TF |  |  |  | TG |  |  |  | TH |  |  |  | TI |  |  |  | TJ |  |  |  | TK |  |  |  | TL |  |  |  | TM |  |  |  | TN |  |  |  | TO |  |  |  | TP |  |  |  | TQ |  |  |  | TR |  |  |  | TS |  |  |  | TT |  |  |  | TU |  |  |  | TV |  |  |  | TW |  |  |  | TX |  |  |  | TY |  |  |  | TZ |  |  |  | UA |  |  |  | UB |  |  |  | UC |  |  |  | UD |  |  |  | UE |  |  |  | UF |  |  |  | UG |  |  |  | UH |  |  |  | UI |  |  |  | UJ |  |  |  | UK |  |  |  | UL |  |  |  | UM |  |  |  | UN |  |  |  | UO |  |  |  | UP |  |  |  | UQ |  |  |  | UR |  |  |  | US |  |  |  | UT |  |  |  | UU |  |  |  | UV |  |  |  | UW |  |  |  | UX |  |  |  | UY |  |  |  | UZ |  |  |  | VA |  |  |  | VB |  |  |  | VC |  |  |  | VD |  |  |  | VE |  |  |  | VF |  |  |  | VG |  |  |  | VH |  |  |  | VI |  |  |  | VJ |  |  |  | VK |  |  |  | VL |  |  |  | VM |  |  |  | VN |  |  |  | VO |  |  |  | VP |  |  |  | VQ |  |  |  | VR |  |  |  | VS |  |  |  | VT |  |  |  | VU |  |  |  | VV |  |  |  | VW |  |  |  | VX |  |  |  | VY |  |  |  | VZ |  |  |  | WA |  |  |  | WB |  |  |  | WC |  |  |  | WD |  |  |  | WE |  |  |  | WF |  |  |  | WG |  |  |  | WH |  |  |  | WI |  |  |  | WJ |  |  |  | WK |  |  |  | WL |  |  |  | WM |  |  |  | WN |  |  |  | WO |  |  |  | WP |  |  |  | WQ |  |  |  | WR |  |  |  | WS |  |  |  | WT |  |  |  | WU |  |  |  | WV |  |  |  | WW |  |  |  | WX |  |  |  | WY |  |  |  | WZ |  |  |  | XA |  |  |  | XB |  |  |  | XC |  |  |  | XD |  |  |  | XE |  |  |  | XF |  |  |  | XG |  |  |  | XH |  |  |  | XI |  |  |  | XJ |  |  |  | XK |  |  |  | XL |  |  |  | XM |  |  |  | XN |  |  |  | XO |  |  |  | XP |  |  |  | XQ |  |  |  | XR |  |  |  | XS |  |  |  | XT |  |  |  | XU |  |  |  | XV |  |  |  | XW |  |  |  | XX |  |  |  | XY |  |  |  | XZ |  |  |  | YA |  |  |  | YB |  |  |  | YC |  |  |  | YD |  |  |  | YE |  |  |  | YF |  |  |  | YG |  |  |  | YH |  |  |  | YI |  |  |  | YJ |  |  |  | YK |  |  |  | YL |  |  |  | YM |  |  |  | YN |  |  |  | YO |  |  |  | YP |  |  |  | YQ |  |  |  | YR |  |  |  | YS |  |  |  | YT |  |  |  | YU |  |  |  | YV |  |  |  | YW |  |  |  | YX |  |  |  | YY |  |  |  | YZ |  |  |  | ZA |  |  |  | ZB |  |  |  | ZC |  |  |  | ZD |  |  |  | ZE |  |  |  | ZF |  |  |  | ZG |  |  |  | ZH |  |  |  | ZI |  |  |  | ZJ |  |  |  | ZK |  |  |  | ZL |  |  |  | ZM |  |  |  | ZN |  |  |  | ZO |  |  |  | ZP |  |  |  | ZQ |  |  |  | ZR |  |  |  | ZS |  |  |  | ZT |  |  |  | ZU |  |  |  | ZV |  |  |  | ZW |  |  |  | ZX |  |  |  | ZY |  |  |  | ZZ |  |  |  |

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.  
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.



Sample Receipt Checklist

Client Name: **NAVAJO REFINING**

Date/Time Received: **11-Aug-09 08:45**

Work Order: **0908241**

Received by: **RSZ**

Checklist completed by Robert D. Harris  
eSignature

11-Aug-09  
Date

Reviewed by: Lay Lynn F Thibault  
eSignature

12-Aug-09  
Date

Matrices: soils

Carrier name: FedEx

|                                                         |                                         |                             |                                                 |
|---------------------------------------------------------|-----------------------------------------|-----------------------------|-------------------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Temperature(s)/Thermometer(s):                          | <u>3.7c</u>                             |                             | <u>002</u>                                      |
| Cooler(s)/Kit(s):                                       | <u></u>                                 |                             |                                                 |
| Water - VOA vials have zero headspace?                  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/>         |
| pH adjusted?                                            | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/>         |
| pH adjusted by:                                         | <u></u>                                 |                             |                                                 |

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

District I  
25 N. French Dr., Hobbs, NM 88240  
District II  
301 W. Grand Avenue, Artesia, NM 88210  
District III  
00 Rio Brazos Road, Aztec, NM 87410  
District IV  
220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| Name of Company: Navajo Refining Co. LLC | Contact: Aaron Strange            |
| Address: 7406 South Main Lovington, NM   | Telephone No. 575-748-3311        |
| Facility Name: Lovington Plant           | Facility Type: Petroleum Refinery |

|               |               |           |
|---------------|---------------|-----------|
| Surface Owner | Mineral Owner | Lease No. |
|---------------|---------------|-----------|

LOCATION OF RELEASE

|             |         |          |       |               |                  |               |                |        |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

NATURE OF RELEASE

|                                                                                                                                          |                                                                                                                                                  |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Type of Release: Spill of Crude Naphtha Mix                                                                                              | Volume of Release: ~12 to 15 bbls                                                                                                                | Volume Recovered: ~ 7 to 9 bbls                |
| Source of Release: Underground Pipe Line                                                                                                 | Date and Hour of Occurrence: 04/21/2010 ~ 15:00                                                                                                  | Date and Hour of Discovery: 04/21/2010 ~ 15:10 |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Spoke with Carl Chavez from OCD Santa Fe (505-476-3490), and left voicemail with OCD Hobbs office (575-393-6161 extension 111). |                                                |
| By Whom? Aaron Strange                                                                                                                   | Date and Hour: 04/21/2010 at ~16:03 to Carl Chavez (OCD Santa Fe), and 04/21/2010 at ~16:28 to the OCD Hobbs office.                             |                                                |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                        | If YES, Volume Impacting the Watercourse.<br>NA                                                                                                  |                                                |

If a Watercourse was Impacted, Describe Fully.\*  
NA

Describe Cause of Problem and Remedial Action Taken.\*

On 04/21/2010 at ~ 15:10 a leak was found on the underground pipeline (Crude Naphtha Mix) that comes from Tank 1202. The Line was blocked in at the transfer pump and isolated until repairs are completed.

Describe Area Affected and Cleanup Action Taken.\*

The area affected is under the road (by the warehouse) where the line leaked and where the leak pooled up under the pipe rack. The plant vacuum truck immediately started to remove the standing liquid. It recovered approximately 7 to 9 barrels of product. A backhoe has excavated the contaminated soil. Safety and Environmental Solutions will be doing the delineation on the spill and any bottom hole sampling.

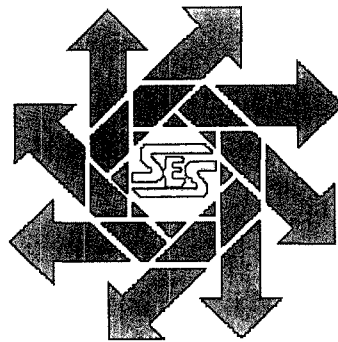
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

|                                                                                                |                                  |                  |                                   |
|------------------------------------------------------------------------------------------------|----------------------------------|------------------|-----------------------------------|
| Signature:  | <u>OIL CONSERVATION DIVISION</u> |                  |                                   |
| Printed Name: Aaron Strange                                                                    | Approved by District Supervisor: |                  |                                   |
| Title: Sr. Environmental Technician                                                            | Approval Date:                   | Expiration Date: |                                   |
| E-mail Address: aaron.strange@hollycorp.com                                                    | Conditions of Approval:          |                  | Attached <input type="checkbox"/> |
| Date: 04/23/2010                                                                               | Phone: 575-703-5057              |                  |                                   |

Attach Additional Sheets If Necessary

**Navajo Refining Company  
Naptha/ Crude Release  
Lea Refinery  
Delineation Report/Work Plan  
Section 36, Township 16S, Range 36E  
Lea County, New Mexico**

**October 22, 2010**



**Prepared for:**

**Navajo Refining Company  
P.O. Box 159  
Artesia, New Mexico 88211**

**By:**

**Safety & Environmental Solutions, Inc.  
703 East Clinton  
Hobbs, New Mexico 88240  
(575) 397-0510**

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## I. Company Contacts

| NAME          | Company         | Telephone    | E-mail                            |
|---------------|-----------------|--------------|-----------------------------------|
| Darrell Moore | Navajo Refining | 575-748-3311 | darrell.moore@navajo-refining.com |
| Bob Allen     | SESI            | 505-397-0510 | ballen@sesi-nm.com                |

## II. Background

On April 21, 2010 at 1510 hours a leak was found on the pipeline (crude-naptha mix) that comes from Tank 1202. The leak occurred in one of several pipelines that cross under a road within the refinery. The product surfaced at the southeast end of the crossing and flowed approximately 170 feet southeast on the northeast side of the ground level pipeline rack. At that point, it ponded in an area approximately 50 feet by 21 feet where it was recovered. Approximately 12 to 15 barrels was lost and an estimated 7 to 9 barrels was recovered by vacuum truck.

Notification was made by telephone to OCD Santa Fe about an hour after the release and a form C-141 was prepared and submitted to OCD. Safety and Environmental Solutions, Inc. (SESI) was engaged by Lea Refining Company to perform delineation services at the Lea Refinery.

## III. Surface and Ground Water

The refinery has numerous monitor wells in the vicinity of this spill. The depth of water in the nearest monitor well (MW-3) is 103.29 feet below land surface measured on January 13, 2010.

## IV Soils

The surface soils in the area are predominantly sand and sandy loam.

## V. Work Performed

On May 12, 2010, David Boyer, Hydro-geologist with SESI, was onsite with Eco Environmental Drilling to install a borehole to delineate the subsurface of the spill site. The borehole was advanced to a total depth of 34' bgs. Samples were taken approximately every 5', properly packaged and sent under chain of custody to ALS Laboratory Group in Houston, Texas for analysis for Total Petroleum Hydrocarbons (TPH GRO, DRO, ORO) (EPA Method SW8015) and Benzene, Toluene, Ethylbenzene and Xylenes (BTEX, EPA Method WS8021B).

The results of the analysis are as follows:

| Sample ID               | GRO<br>(mg/kg) | DRO<br>(mg/kg) | MOR<br>(mg/kg) | TPH<br>(mg/kg) | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethyl<br>Benzene<br>(mg/kg) | Total<br>Xylenes<br>(mg/kg) |
|-------------------------|----------------|----------------|----------------|----------------|--------------------|--------------------|-----------------------------|-----------------------------|
| BH#1 0-4'<br>(cuttings) | 17             | 13,000         | 2,800          | 15,817         | <0.12              | 0.15               | 2.8                         | 4.9                         |
| BH#1 4-9'               | 16             | 7,200          | 1,800          | 9,016          | <0.12              | 0.14               | 1.2                         | 3.1                         |
| BH#1 13-14'             | <0.050         | <1.7           | <3.4           | <5.1           | <0.0010            | <0.0010            | <0.0010                     | <0.0030                     |
| BH#1 18-19'             | <0.050         | <1.7           | <3.4           | <5.1           | <0.0010            | <0.0010            | <0.0010                     | <0.0030                     |
| BH#1 23-24'             | <0.050         | <1.7           | <3.4           | <5.1           | <0.0010            | <0.0010            | <0.0010                     | <0.0030                     |



| Sample ID   | GRO<br>(mg/kg) | DRO<br>(mg/kg) | MOR<br>(mg/kg) | TPH<br>(mg/kg) | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethyl<br>Benzene<br>(mg/kg) | Total<br>Xylenes<br>(mg/kg) |
|-------------|----------------|----------------|----------------|----------------|--------------------|--------------------|-----------------------------|-----------------------------|
| BH#1 28-29' | <0.050         | <1.7           | <3.4           | <5.1           | <0.0010            | <0.0010            | <0.0010                     | <0.0030                     |
| BH#1 33-34' | <0.050         | <1.7           | <3.4           | <5.1           | <0.0010            | <0.0010            | <0.0010                     | <0.0030                     |

All borings were backfilled from total depth to surface with bentonite and hydrated.

PID readings taken on site indicated volatiles above 20 ppm to a depth of 24 feet thus drilling continued deeper than laboratory results would indicate was necessary. The laboratory results indicate only minimal vertical migration to the depth between 9 and 13 feet below ground surface.

#### VI. Action Plan

It is recommended that the spill area that is not under the piping be excavated to remove the most highly contaminated soils and backfilled with clean soil and returned to grade.

The excavated soils will be transported to an NMOCD approved facility for disposal. Upon completion a closure report will be submitted to the NMOCD.

#### VII. Figures & Appendices

Figure 1 – Vicinity Map

Figure 2 – Site Plan

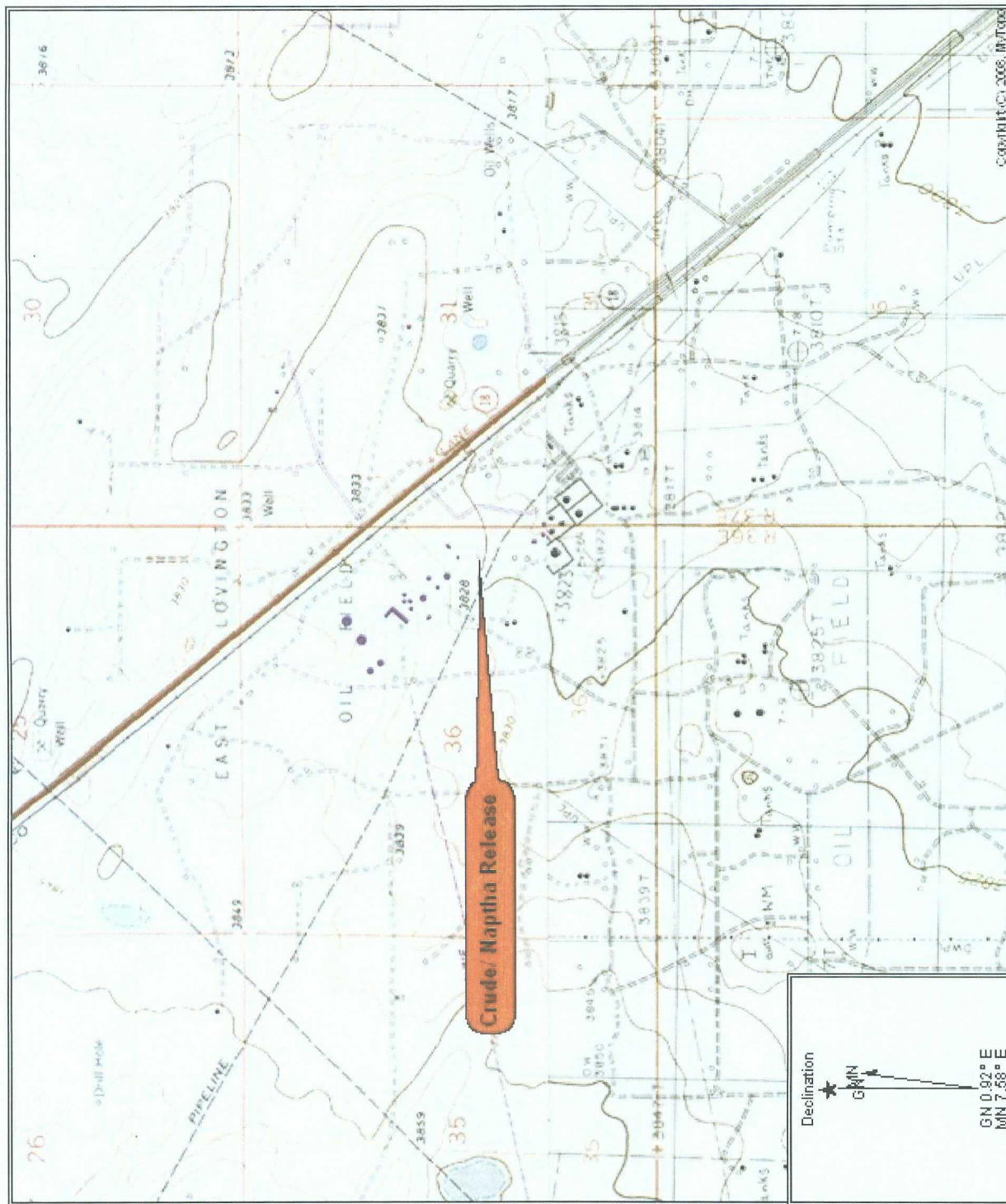
Figure 3 – Logs of Boring

Appendix A – Analytical Results

Appendix B – C-141

# **Figure 1**

## **Vicinity Map**

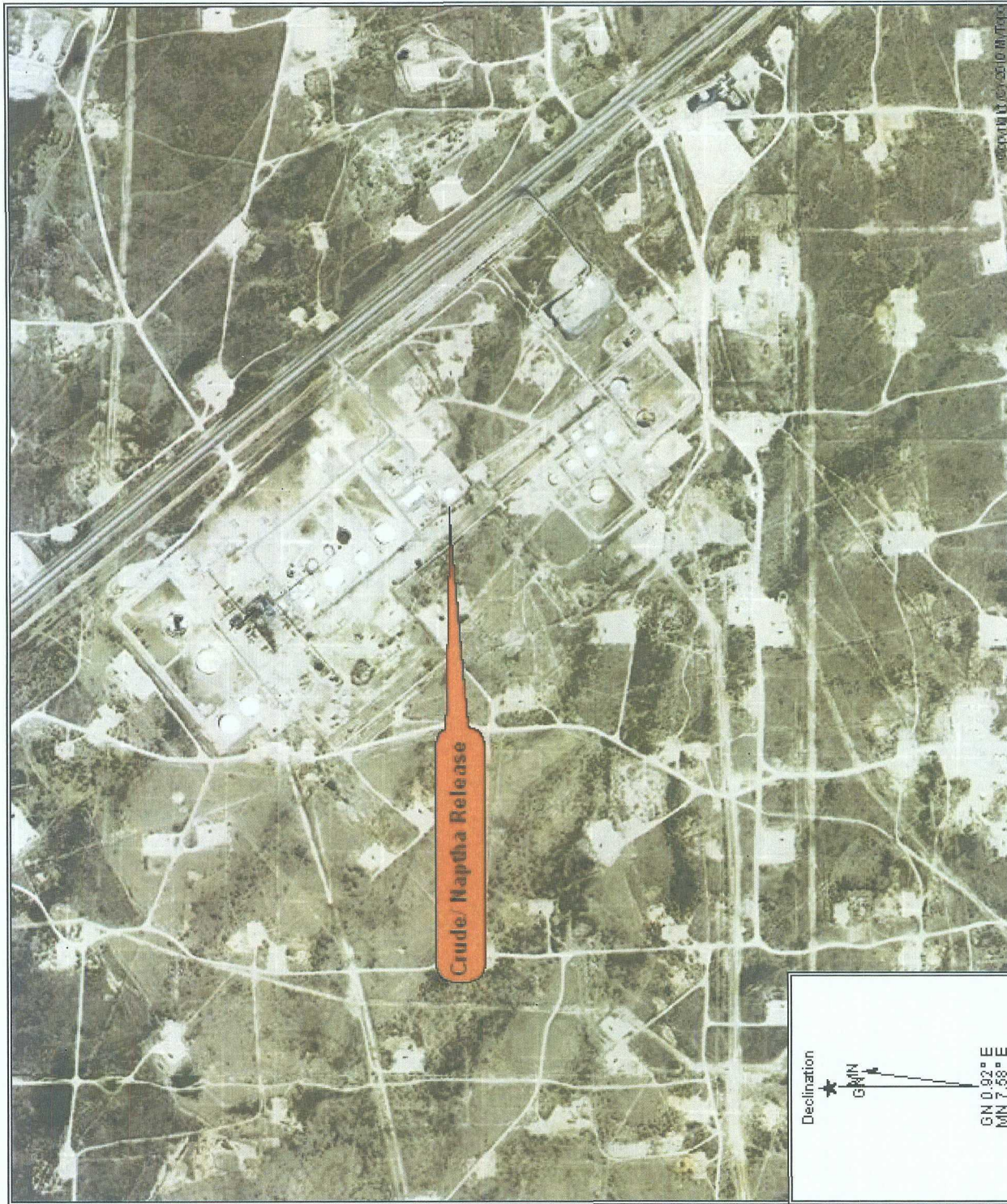


Map Center: 032.8764106° N 103.3027293° W  
Horizontal Datum: WGS84

Map Name: LOVINGTON SE,  
Scale: 1 inch = 2,000 ft.

**Figure 2**  
**Site Plan**





03/09/11 03:20:10 M/TSC

Map Center: 032.8764106° N 103.3027293° W  
Horizontal Datum: WGS84

Map Name: NE LOVINGTON SE, NM  
Scale: 1 inch = 1,000 ft.

Declination  
★  
GN 0.92° E  
MN 7.58° E

**Figure 2**  
**Log of Boring**





**Safety & Environmental  
Solutions, Inc.**

**LOG OF BORING 1**

(Page 1 of 1)

Navajo Refinery  
Les Refinery Crude/Naptha Release  
Sec. 36, Township 16S, Range 36E  
Eddy County, New Mexico  
N32° 52' 39.3", W103° 18' 02.5"

Date/Time Started : 05/12/10 9:15  
Date/Time Completed : 05/12/10 12:30  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : Foremost-Mobile B-57

Drilled By : Eco/Enviro Drilling  
Sampling Method : 5 ft. core barrel  
Logged By : Dave Boyer, SESI

| Depth<br>in<br>Feet | Sample<br>Method | Sample<br>Recovery (ft.) | USCS  | GRAPHIC | Sample Method:<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                    | Lab No.    | GRO (mg/Kg)28 | DRO (mg/Kg) | MOR (mg/Kg) | TPH (mg/Kg) | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethyl Benzene (mg/Kg) | Total Xylenes (mg/Kg) |
|---------------------|------------------|--------------------------|-------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|-------------|-------------|-------------|-----------------|-----------------|-----------------------|-----------------------|
|                     |                  |                          |       |         | DESCRIPTION                                                                                                                                            |            |               |             |             |             |                 |                 |                       |                       |
| 0                   |                  |                          |       |         | Auger cuttings, 0-4 FT.                                                                                                                                |            |               |             |             |             |                 |                 |                       |                       |
| 1                   |                  |                          |       |         | 0-2 ft. Loose Rock                                                                                                                                     |            |               |             |             |             |                 |                 |                       |                       |
| 2                   | CT               |                          | CA/SM |         | 2-4 ft. - CALICHE, with silty sand, sandy silt, light brown, strong H/C odor                                                                           | 1005384-01 | 17            | 13,000      | 2,800       | 15,817      | <0.12           | 0.15            | 2.8                   | 4.9                   |
| 3                   |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 4                   |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 5                   |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 6                   | CB               | 0.9                      | CA/SM |         | 4-9 ft. - CALICHE and SANDY SILT with light brown, added water at 9 ft. to remove cuttings, H/C odor                                                   | 1005384-02 | 16            | 7,200       | 1,800       | 9,016       | <0.12           | 0.14            | 1.2                   | 3.1                   |
| 7                   |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 8                   |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 9                   |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 10                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 11                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 12                  | CB               | 1.4                      | CA/SM |         | 9-13 ft. - CALICHE, soft and SANDY SILT                                                                                                                |            |               |             |             |             |                 |                 |                       |                       |
| 13                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 14                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 15                  |                  |                          |       |         | Transition from caliche to sand                                                                                                                        | 1005384-03 | <0.050        | <1.7        | <3.4        | <5.1        | <0.0010         | <0.0010         | <0.0010               | <0.0010               |
| 16                  |                  |                          |       |         | 13-14 ft. - SAND, slight H/C odor                                                                                                                      |            |               |             |             |             |                 |                 |                       |                       |
| 17                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 18                  | CB               | 2                        | SP    |         | 14-19 ft. - SAND, light brown, very fine to fine grained, moist, occasional rock, slight H/C odor                                                      |            |               |             |             |             |                 |                 |                       |                       |
| 19                  |                  |                          |       |         |                                                                                                                                                        | 1005384-04 | <0.050        | <1.7        | <3.4        | <5.1        | <0.0010         | <0.0010         | <0.0010               | <0.0010               |
| 20                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 21                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 22                  | CB               | 1.9                      | SP    |         | 19-24 ft. SAND, very fine grained, uniform, slightly moist, occasional caliche rock to 1.5 in., possible H/C odor                                      |            |               |             |             |             |                 |                 |                       |                       |
| 23                  |                  |                          |       |         |                                                                                                                                                        | 1005384-05 | <0.050        | <1.7        | <3.4        | <5.1        | <0.0010         | <0.0010         | <0.0010               | <0.0010               |
| 24                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 25                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 26                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 27                  | CB               | 1.9                      | SP    |         | 24-29 ft. - SAND, light brown with occasional carbonate cemented sandstone, sand very fine grained, dry, no hydrocarbon staining or odor               |            |               |             |             |             |                 |                 |                       |                       |
| 28                  |                  |                          |       |         |                                                                                                                                                        | 1005384-06 | <0.050        | <1.7        | <3.4        | <5.1        | <0.0010         | <0.0010         | <0.0010               | <0.0010               |
| 29                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 30                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 31                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 32                  | CB               | 1.6                      | SP    |         | 29-34 ft. - Added water for drilling. SAND, light brown with frequent sandstone pieces, sandstone very well cemented, no hydrocarbon staining or odor. |            |               |             |             |             |                 |                 |                       |                       |
| 33                  |                  |                          |       |         |                                                                                                                                                        | 1005384-08 | <0.050        | <1.7        | <3.4        | <5.1        | <0.0010         | <0.0010         | <0.0010               | <0.0010               |
| 34                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |
| 35                  |                  |                          |       |         |                                                                                                                                                        |            |               |             |             |             |                 |                 |                       |                       |

Notes:

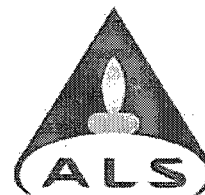
Location is edge of dug pit where contamination removed.  
Plugged back to surface with 15 bags bentonite, hydrated.

## **Appendix A**

### **Analytical Results**

# ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



## Environmental Division

28-May-2010

Darrell Moore  
Navajo Refining Company  
PO Box 159  
Artesia, NM 88211

Tel: (575) 748-6733  
Fax: (575) 746-5421

Re: Lea Refinery Crude/Naptha Release

Work Order: 1005384

Dear Darrell,

ALS Laboratory Group received 7 samples on 13-May-2010 08:50 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 20.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

*JayLynn F Thibault*

Electronically approved by: Glenda H. Ramos

JayLynn F Thibault  
Project Manager



Certificate No: T104704231-09A-TX

## ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

[www.alsglobal.com](http://www.alsglobal.com) [www.elabi.com](http://www.elabi.com)

A Campbell Brothers Limited Company

**Client:** Navajo Refining Company  
**Project:** Lea Refinery Crude/Naptha Release  
**Work Order:** 1005384

**Work Order Sample Summary**

| <u>Lab Samp ID</u> | <u>Client Sample ID</u>  | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|--------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1005384-01         | BH-1 Auger Cuttings 0-4' | Soil          |                   | 5/12/2010 09:50        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005384-02         | BH1 4-9'                 | Soil          |                   | 5/12/2010 10:40        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005384-03         | BH-1 13-14'              | Soil          |                   | 5/12/2010 10:55        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005384-04         | BH-1 18-19'              | Soil          |                   | 5/12/2010 11:05        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005384-05         | BH-1 23-24'              | Soil          |                   | 5/12/2010 11:15        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005384-06         | BH-1 28-29'              | Soil          |                   | 5/12/2010 11:35        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005384-07         | BH-1 33-34'              | Soil          |                   | 5/12/2010 12:05        | 5/13/2010 08:50      | <input type="checkbox"/> |

## ALS Laboratory Group

Date: 28-May-10

Client: Navajo Refining Company  
Project: Lea Refinery Crude/Naptha Release  
Work Order: 1005384

### Case Narrative

BTEX (Sample 1005384-01 and 02) Lowest practical dilution due to matrix.

TPH (Sample 1005384-01 and 02) recovery out of control limits due to dilution.



**ALS Laboratory Group**

Date: 28-May-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery Crude/Naptha Release  
**Sample ID:** BH-1 Auger Cuttings 0-4'  
**Collection Date:** 5/12/2010 09:50 AM

**Work Order:** 1005384  
**Lab ID:** 1005384-01  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 5/14/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 13,000 |      | 340            | mg/Kg | 200                  | 5/27/2010 04:41 PM |
| TPH (Motor Oil Range)          | 2,800  |      | 680            | mg/Kg | 200                  | 5/27/2010 04:41 PM |
| Surr: 2-Fluorobiphenyl         | 0      | S    | 70-130         | %REC  | 200                  | 5/27/2010 04:41 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 17     |      | 0.25           | mg/Kg | 5                    | 5/19/2010 04:01 PM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 70-130         | %REC  | 5                    | 5/19/2010 04:01 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.12           | mg/Kg | 125                  | 5/20/2010 05:18 PM |
| Toluene                        | 0.15   |      | 0.12           | mg/Kg | 125                  | 5/20/2010 05:18 PM |
| Ethylbenzene                   | 2.8    |      | 0.12           | mg/Kg | 125                  | 5/20/2010 05:18 PM |
| Xylenes, Total                 | 4.9    |      | 0.38           | mg/Kg | 125                  | 5/20/2010 05:18 PM |
| Surr: 4-Bromofluorobenzene     | 96.0   |      | 75-131         | %REC  | 125                  | 5/20/2010 05:18 PM |
| Surr: Trifluorotoluene         | 83.2   |      | 73-130         | %REC  | 125                  | 5/20/2010 05:18 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 28-May-10

Client: Navajo Refining Company  
 Project: Lea Refinery Crude/Naptha Release  
 Sample ID: BH1 4-9'  
 Collection Date: 5/12/2010 10:40 AM

Work Order: 1005384  
 Lab ID: 1005384-02  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/14/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 7,200  |      | 340            | mg/Kg | 200                  | 5/27/2010 04:22 PM |
| TPH (Motor Oil Range)          | 1,800  |      | 680            | mg/Kg | 200                  | 5/27/2010 04:22 PM |
| Surr: 2-Fluorobiphenyl         | 0      | S    | 70-130         | %REC  | 200                  | 5/27/2010 04:22 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 16     |      | 0.25           | mg/Kg | 5                    | 5/19/2010 05:08 PM |
| Surr: 4-Bromofluorobenzene     | 117    |      | 70-130         | %REC  | 5                    | 5/19/2010 05:08 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.12           | mg/Kg | 125                  | 5/20/2010 05:46 PM |
| Toluene                        | 0.14   |      | 0.12           | mg/Kg | 125                  | 5/20/2010 05:46 PM |
| Ethylbenzene                   | 1.2    |      | 0.12           | mg/Kg | 125                  | 5/20/2010 05:46 PM |
| Xylenes, Total                 | 3.1    |      | 0.38           | mg/Kg | 125                  | 5/20/2010 05:46 PM |
| Surr: 4-Bromofluorobenzene     | 96.7   |      | 75-131         | %REC  | 125                  | 5/20/2010 05:46 PM |
| Surr: Trifluorotoluene         | 83.8   |      | 73-130         | %REC  | 125                  | 5/20/2010 05:46 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 28-May-10

Client: Navajo Refining Company  
 Project: Lea Refinery Crude/Naptha Release  
 Sample ID: BH-1 13-14'  
 Collection Date: 5/12/2010 10:55 AM

Work Order: 1005384  
 Lab ID: 1005384-03  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/14/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/27/2010 04:02 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/27/2010 04:02 PM |
| Surr: 2-Fluorobiphenyl         | 101    |      | 70-130         | %REC  | 1                    | 5/27/2010 04:02 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/19/2010 06:42 PM |
| Surr: 4-Bromofluorobenzene     | 86.0   |      | 70-130         | %REC  | 1                    | 5/19/2010 06:42 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 04:46 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 04:46 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 04:46 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/19/2010 04:46 PM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 75-131         | %REC  | 1                    | 5/19/2010 04:46 PM |
| Surr: Trifluorotoluene         | 97.7   |      | 73-130         | %REC  | 1                    | 5/19/2010 04:46 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 28-May-10

Client: Navajo Refining Company  
 Project: Lea Refinery Crude/Naptha Release  
 Sample ID: BH-1 18-19'  
 Collection Date: 5/12/2010 11:05 AM

Work Order: 1005384  
 Lab ID: 1005384-04  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/14/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/14/2010 06:20 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/14/2010 06:20 PM |
| Surr: 2-Fluorobiphenyl         | 106    |      | 70-130         | %REC  | 1                    | 5/14/2010 06:20 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/19/2010 07:07 PM |
| Surr: 4-Bromofluorobenzene     | 82.4   |      | 70-130         | %REC  | 1                    | 5/19/2010 07:07 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 05:06 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 05:06 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 05:06 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/19/2010 05:06 PM |
| Surr: 4-Bromofluorobenzene     | 99.7   |      | 75-131         | %REC  | 1                    | 5/19/2010 05:06 PM |
| Surr: Trifluorotoluene         | 97.8   |      | 73-130         | %REC  | 1                    | 5/19/2010 05:06 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 28-May-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery Crude/Naptha Release  
**Sample ID:** BH-1 23-24'  
**Collection Date:** 5/12/2010 11:15 AM

**Work Order:** 1005384  
**Lab ID:** 1005384-05  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 5/14/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/14/2010 06:40 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/14/2010 06:40 PM |
| Surr: 2-Fluorobiphenyl         | 105    |      | 70-130         | %REC  | 1                    | 5/14/2010 06:40 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/19/2010 07:31 PM |
| Surr: 4-Bromofluorobenzene     | 81.5   |      | 70-130         | %REC  | 1                    | 5/19/2010 07:31 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 05:26 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 05:26 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 05:26 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/19/2010 05:26 PM |
| Surr: 4-Bromofluorobenzene     | 99.5   |      | 75-131         | %REC  | 1                    | 5/19/2010 05:26 PM |
| Surr: Trifluorotoluene         | 96.9   |      | 73-130         | %REC  | 1                    | 5/19/2010 05:26 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 28-May-10

Client: Navajo Refining Company  
 Project: Lea Refinery Crude/Naptha Release  
 Sample ID: BH-1 28-29'  
 Collection Date: 5/12/2010 11:35 AM

Work Order: 1005384  
 Lab ID: 1005384-06  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/14/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/14/2010 06:59 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/14/2010 06:59 PM |
| Surr: 2-Fluorobiphenyl         | 82.7   |      | 70-130         | %REC  | 1                    | 5/14/2010 06:59 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/19/2010 07:55 PM |
| Surr: 4-Bromofluorobenzene     | 80.8   |      | 70-130         | %REC  | 1                    | 5/19/2010 07:55 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 05:46 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 05:46 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 05:46 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/19/2010 05:46 PM |
| Surr: 4-Bromofluorobenzene     | 98.0   |      | 75-131         | %REC  | 1                    | 5/19/2010 05:46 PM |
| Surr: Trifluorotoluene         | 94.7   |      | 73-130         | %REC  | 1                    | 5/19/2010 05:46 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



**ALS Laboratory Group**

Date: 28-May-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery Crude/Naptha Release  
**Sample ID:** BH-1 33-34'  
**Collection Date:** 5/12/2010 12:05 PM

**Work Order:** 1005384  
**Lab ID:** 1005384-07  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/14/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/14/2010 07:18 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/14/2010 07:18 PM |
| Surr: 2-Fluorobiphenyl         | 102    |      | 70-130         | %REC  | 1                    | 5/14/2010 07:18 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/19/2010 08:19 PM |
| Surr: 4-Bromofluorobenzene     | 81.5   |      | 70-130         | %REC  | 1                    | 5/19/2010 08:19 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 06:06 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 06:06 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/19/2010 06:06 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/19/2010 06:06 PM |
| Surr: 4-Bromofluorobenzene     | 100    |      | 75-131         | %REC  | 1                    | 5/19/2010 06:06 PM |
| Surr: Trifluorotoluene         | 98.4   |      | 73-130         | %REC  | 1                    | 5/19/2010 06:06 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 28-May-10

Client: Navajo Refining Company  
 Work Order: 1005384  
 Project: Lea Refinery Crude/Naptha Release

## QC BATCH REPORT

Batch ID: 42940 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS1-100514-42940 Units: mg/Kg Analysis Date: 5/14/2010 04:57 PM

Client ID: Run ID: FID-7\_100514A SeqNo: 1965833 Prep Date: 5/14/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.966  | 0.10 | 3.33    | 0             | 119  | 70-130        | 0             |      |           |      |

LCS Sample ID: FLCSS1-100514-42940 Units: mg/Kg Analysis Date: 5/14/2010 05:16 PM

Client ID: Run ID: FID-7\_100514A SeqNo: 1965834 Prep Date: 5/14/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 37.29  | 1.7  | 33.33   | 0             | 112  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 34.87  | 3.4  | 33.33   | 0             | 105  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.212  | 0.10 | 3.33    | 0             | 126  | 70-130        | 0             |      |           |      |

MS Sample ID: 1005384-07BMS Units: mg/Kg Analysis Date: 5/14/2010 07:38 PM

Client ID: BH-1 33-34' Run ID: FID-7\_100514A SeqNo: 1965875 Prep Date: 5/14/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 40.01  | 1.7  | 33.26   | 1.348         | 116  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 42.82  | 3.4  | 33.26   | 0.9376        | 126  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.802  | 0.10 | 3.323   | 0             | 114  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005384-07BMSD Units: mg/Kg Analysis Date: 5/14/2010 07:57 PM

Client ID: BH-1 33-34' Run ID: FID-7\_100514A SeqNo: 1965876 Prep Date: 5/14/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 41.39  | 1.7  | 33.32   | 1.348         | 120  | 70-130        | 40.01         | 3.38 | 30        |      |
| TPH (Motor Oil Range)  | 39.94  | 3.4  | 33.32   | 0.9376        | 117  | 70-130        | 42.82         | 6.96 | 30        |      |
| Surr: 2-Fluorobiphenyl | 3.536  | 0.10 | 3.329   | 0             | 106  | 70-130        | 3.802         | 7.25 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005384-01B | 1005384-02B | 1005384-03B |
| 1005384-04B | 1005384-05B | 1005384-06B |
| 1005384-07B |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005384  
 Project: Lea Refinery Crude/Naptha Release

# QC BATCH REPORT

Batch ID: **R91212** Instrument ID **BTEX3** Method: **SW8021B**

**MBLK** Sample ID: **BBLKS1-051910-R91212** Units: **µg/Kg** Analysis Date: **5/19/2010 11:42 AM**

Client ID: Run ID: **BTEX3\_100519A** SeqNo: **1964639** Prep Date: DF: **1**

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 28.15  | 1.0 | 30      | 0             | 93.8 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 28.41  | 1.0 | 30      | 0             | 94.7 | 73-130        | 0             |      |           |      |

**LCS** Sample ID: **BLCSS1-051910-R91212** Units: **µg/Kg** Analysis Date: **5/19/2010 11:12 AM**

Client ID: Run ID: **BTEX3\_100519A** SeqNo: **1964638** Prep Date: DF: **1**

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.2   | 1.0 | 20      | 0             | 96   | 74-129        | 0             |      |           |      |
| Toluene                    | 19.16  | 1.0 | 20      | 0             | 95.8 | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 19.59  | 1.0 | 20      | 0             | 97.9 | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 58.32  | 3.0 | 60      | 0             | 97.2 | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 27.31  | 1.0 | 30      | 0             | 91   | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 28.61  | 1.0 | 30      | 0             | 95.4 | 73-130        | 0             |      |           |      |

**MS** Sample ID: **1005488-02AMS** Units: **µg/Kg** Analysis Date: **5/19/2010 03:02 PM**

Client ID: Run ID: **BTEX3\_100519A** SeqNo: **1964646** Prep Date: DF: **1**

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.12  | 1.0 | 20      | 0             | 95.6 | 74-129        | 0             |      |           |      |
| Toluene                    | 18.91  | 1.0 | 20      | 0             | 94.5 | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 19.53  | 1.0 | 20      | 0             | 97.6 | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 58.41  | 3.0 | 60      | 0             | 97.3 | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 28.19  | 1.0 | 30      | 0             | 94   | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 29.01  | 1.0 | 30      | 0             | 96.7 | 73-130        | 0             |      |           |      |

**MSD** Sample ID: **1005488-02AMSD** Units: **µg/Kg** Analysis Date: **5/19/2010 03:22 PM**

Client ID: Run ID: **BTEX3\_100519A** SeqNo: **1964647** Prep Date: DF: **1**

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 19.21  | 1.0 | 20      | 0             | 96.1 | 74-129        | 19.12         | 0.492 | 30        |      |
| Toluene                    | 19.28  | 1.0 | 20      | 0             | 96.4 | 75-128        | 18.91         | 1.92  | 30        |      |
| Ethylbenzene               | 19.76  | 1.0 | 20      | 0             | 98.8 | 73-127        | 19.53         | 1.19  | 30        |      |
| Xylenes, Total             | 58.21  | 3.0 | 60      | 0             | 97   | 74-127        | 58.41         | 0.343 | 30        |      |
| Surr: 4-Bromofluorobenzene | 29.28  | 1.0 | 30      | 0             | 97.6 | 75-131        | 28.19         | 3.79  | 30        |      |
| Surr: Trifluorotoluene     | 29.27  | 1.0 | 30      | 0             | 97.6 | 73-130        | 29.01         | 0.881 | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1005384  
**Project:** Lea Refinery Crude/Naptha Release

## QC BATCH REPORT

Batch ID: **R91212**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005384-03A | 1005384-04A | 1005384-05A |
| 1005384-06A | 1005384-07A |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005384  
 Project: Lea Refinery Crude/Naptha Release

# QC BATCH REPORT

Batch ID: R91273 Instrument ID BTEX1 Method: SW8021B

MBLK Sample ID: BBLKW1-052010-R91273 Units: µg/L Analysis Date: 5/20/2010 07:06 AM

Client ID: Run ID: BTEX1\_100520A SeqNo: 1966126 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.3   | 1.0 | 30      | 0             | 97.7 | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 26.99  | 1.0 | 30      | 0             | 90   | 75-130        | 0             |      |           |      |

MBLK Sample ID: MEOHW1-052010-R91273 Units: µg/L Analysis Date: 5/20/2010 11:48 AM

Client ID: Run ID: BTEX1\_100520A SeqNo: 1966135 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 28.94  | 1.0 | 30      | 0             | 96.5 | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 26.04  | 1.0 | 30      | 0             | 86.8 | 75-130        | 0             |      |           |      |

LCS Sample ID: BLCSW1-052010-R91273 Units: µg/L Analysis Date: 5/20/2010 06:49 AM

Client ID: Run ID: BTEX1\_100520A SeqNo: 1966125 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.87  | 1.0 | 20      | 0             | 104  | 77-126        | 0             |      |           |      |
| Toluene                    | 19.81  | 1.0 | 20      | 0             | 99   | 80-124        | 0             |      |           |      |
| Ethylbenzene               | 19.31  | 1.0 | 20      | 0             | 96.5 | 76-125        | 0             |      |           |      |
| Xylenes, Total             | 58.09  | 3.0 | 60      | 0             | 96.8 | 79-124        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.17  | 1.0 | 30      | 0             | 97.2 | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 27.69  | 1.0 | 30      | 0             | 92.3 | 75-130        | 0             |      |           |      |

MS Sample ID: 1005463-08AMS Units: µg/L Analysis Date: 5/20/2010 10:10 AM

Client ID: Run ID: BTEX1\_100520A SeqNo: 1966131 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.94  | 1.0 | 20      | 0             | 99.7 | 77-126        | 0             |      |           |      |
| Toluene                    | 19.48  | 1.0 | 20      | 0             | 97.4 | 80-124        | 0             |      |           |      |
| Ethylbenzene               | 19.33  | 1.0 | 20      | 0             | 96.6 | 76-125        | 0             |      |           |      |
| Xylenes, Total             | 57.59  | 3.0 | 60      | 0             | 96   | 79-124        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.17  | 1.0 | 30      | 0             | 97.2 | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 26.32  | 1.0 | 30      | 0             | 87.7 | 75-130        | 0             |      |           |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1005384  
Project: Lea Refinery Crude/Naptha Release

## QC BATCH REPORT

Batch ID: **R91273** Instrument ID **BTEX1** Method: **SW8021B**

MSD Sample ID: **1005463-08AMSD** Units: **µg/L** Analysis Date: **5/20/2010 10:27 AM**

Client ID: Run ID: **BTEX1\_100520A** SeqNo: **1966132** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 20.32  | 1.0 | 20      | 0             | 102  | 77-126        | 19.94         | 1.93  | 20        |      |
| Toluene                    | 19.56  | 1.0 | 20      | 0             | 97.8 | 80-124        | 19.48         | 0.382 | 20        |      |
| Ethylbenzene               | 19.17  | 1.0 | 20      | 0             | 95.8 | 76-125        | 19.33         | 0.837 | 20        |      |
| Xylenes, Total             | 57.42  | 3.0 | 60      | 0             | 95.7 | 79-124        | 57.59         | 0.292 | 20        |      |
| Surr: 4-Bromofluorobenzene | 29.49  | 1.0 | 30      | 0             | 98.3 | 77-129        | 29.17         | 1.1   | 20        |      |
| Surr: Trifluorotoluene     | 27.83  | 1.0 | 30      | 0             | 92.8 | 75-130        | 26.32         | 5.55  | 20        |      |

The following samples were analyzed in this batch:

1005384-01A 1005384-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
 Work Order: 1005384  
 Project: Lea Refinery Crude/Naptha Release

# QC BATCH REPORT

Batch ID: R91452 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-051910-R91452 Units: mg/Kg Analysis Date: 5/19/2010 03:13 PM

Client ID: Run ID: FID-9\_100519A SeqNo: 1970164 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND      | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08416 | 0.0050 | 0.1     | 0             | 84.2 | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-051910-R91452 Units: mg/Kg Analysis Date: 5/19/2010 01:55 PM

Client ID: Run ID: FID-9\_100519A SeqNo: 1970162 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.165   | 0.050  | 1       | 0             | 116  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08689 | 0.0050 | 0.1     | 0             | 86.9 | 70-130        | 0             |      |           |      |

LCSD Sample ID: GLCSDS-051910-R91452 Units: mg/Kg Analysis Date: 5/19/2010 02:19 PM

Client ID: Run ID: FID-9\_100519A SeqNo: 1970163 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.134   | 0.050  | 1       | 0             | 113  | 70-130        | 1.165         | 2.63 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.08509 | 0.0050 | 0.1     | 0             | 85.1 | 70-130        | 0.08689       | 2.09 | 30        |      |

MS Sample ID: 1005384-07BMS Units: mg/Kg Analysis Date: 5/19/2010 09:07 PM

Client ID: BH-1 33-34' Run ID: FID-9\_100519A SeqNo: 1970172 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.111  | 0.050  | 1       | 0             | 111  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.0826 | 0.0050 | 0.1     | 0             | 82.6 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005384-07BMSD Units: mg/Kg Analysis Date: 5/19/2010 09:30 PM

Client ID: BH-1 33-34' Run ID: FID-9\_100519A SeqNo: 1970173 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Gasoline Range Organics    | 1.109   | 0.050  | 1       | 0             | 111  | 70-130        | 1.111         | 0.202 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.08118 | 0.0050 | 0.1     | 0             | 81.2 | 70-130        | 0.0826        | 1.73  | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005384-01B | 1005384-02B | 1005384-03B |
| 1005384-04B | 1005384-05B | 1005384-06B |
| 1005384-07B |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

# ALS Laboratory Group

Date: 28-May-10

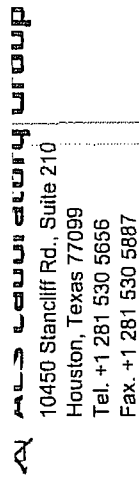
**Client:** Navajo Refining Company  
**Project:** Lea Refinery Crude/Naptha Release  
**WorkOrder:** 1005384

## QUALIFIERS, ACRONYMS, UNITS

| <u>Qualifier</u> | <u>Description</u>                                                        |
|------------------|---------------------------------------------------------------------------|
| *                | Value exceeds Regulatory Limit                                            |
| a                | Not accredited                                                            |
| B                | Analyte detected in the associated Method Blank above the Reporting Limit |
| E                | Value above quantitation range                                            |
| H                | Analyzed outside of Holding Time                                          |
| J                | Analyte detected below quantitation limit                                 |
| M                | Manually integrated, see raw data for justification                       |
| n                | Not offered for accreditation                                             |
| ND               | Not Detected at the Reporting Limit                                       |
| O                | Sample amount is > 4 times amount spiked                                  |
| P                | Dual Column results percent difference > 40%                              |
| R                | RPD above laboratory control limit                                        |
| S                | Spike Recovery outside laboratory control limits                          |
| U                | Analyzed but not detected above the MDL                                   |

| <u>Acronym</u> | <u>Description</u>                  |
|----------------|-------------------------------------|
| DUP            | Method Duplicate                    |
| LCS            | Laboratory Control Sample           |
| LCSD           | Laboratory Control Sample Duplicate |
| MBLK           | Method Blank                        |
| MDL            | Method Detection Limit              |
| MQL            | Method Quantitation Limit           |
| MS             | Matrix Spike                        |
| MSD            | Matrix Spike Duplicate              |
| PDS            | Post Digestion Spike                |
| PQL            | Practical Quantitation Limit        |
| SD             | Serial Dilution                     |
| SDL            | Sample Detection Limit              |
| TRRP           | Texas Risk Reduction Program        |

| <u>Units Reported</u> | <u>Description</u>      |
|-----------------------|-------------------------|
| mg/Kg                 | Milligrams per Kilogram |



**ALS Laboratory Group**

3352 128th Ave.  
Holland, MI 49424-9263  
Tel: +1 616 399 6070  
Fax: +1 616 399 6185

Page 1 of 1

### Project Information

**ALS Work Order #:**

### Parameter/Method Request for Analysis

|                |                         |                 |                                                     |   |             |
|----------------|-------------------------|-----------------|-----------------------------------------------------|---|-------------|
| Purchase Order |                         | Project Name    | Lea Refinery <del>Item #</del> <i>Crude/Asphalt</i> | A | BTEX (8021) |
| Work Order     |                         | Project Number  | <i>NA-13004</i>                                     | B | GRO (8015M) |
| Company Name   | Navajo Refining Company | Bill To Company | Navajo Refining Company                             | C | DRO (8015M) |
| Send Report To | Darrell Moore           | Invoice Attn    | Darrell Moore                                       | D | ORO (8015M) |
| Address        | P.O. Box 159            | Address         | P.O. Box 159                                        | E |             |
| City/State/Zip | Artesia, NM 88211       | City/State/Zip  | Artesia, NM 88211                                   | F |             |
| Phone          | (505) 748-3311          | Phone           | (505) 748-3311                                      | G |             |
| Fax            | (505) 746-5421          | Fax             | (505) 746-5421                                      | H |             |
| e-Mail/Address | dgboyer@SESI-NM.com     | e-Mail Address  |                                                     | J |             |

[illegible]

|                                                                                                                                |                          |                                                                                                                                                                           |                                 |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Sampler(s) Please Print & Sign<br> D. Boyan | Shipment Method<br>FedEx | Required Turnaround Time: (Check Box)<br><input checked="" type="checkbox"/> 1-2 Wks Days<br><input type="checkbox"/> 3-4 Wks Days<br><input type="checkbox"/> 5 Wks Days | Results Due Date:<br>12/21/2011 |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|

Notes: 10 Day TAT. Co Dave Boyer

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

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[illegible]

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100

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## Sample Receipt Checklist

Client Name: **NAVAJO REFINING**

Date/Time Received: **13-May-10 08:50**

Work Order: **1005384**

Received by: **RSZ**

Checklist completed by Robert D. Harris  
eSignature

13-May-10  
Date

Reviewed by:

eSignature

Date

Matrices: soils

Carrier name: FedEx

|                                                         |                                         |                             |                                                            |
|---------------------------------------------------------|-----------------------------------------|-----------------------------|------------------------------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>                       |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>                       |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/>            |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| Temperature(s)/Thermometer(s):                          | <u>2.6c</u>                             |                             | <u>002</u>                                                 |
| Cooler(s)/Kit(s):                                       | <u>2491</u>                             |                             |                                                            |
| Water - VOA vials have zero headspace?                  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/>                    |
| pH adjusted?                                            | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/>                    |
| pH adjusted by:                                         | <u></u>                                 |                             |                                                            |

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

This portion can be removed for Recipient's records.

to 9/12/10 FedEx Tracking Number 869809949890

Sender's  
Name

B. BAYER

Phone

515 507 7112

Company

SEN

Address

Joe E. Clinton

Dept./Floor/Suite/Room

Hoble - 1st Floor NM 8250

State

ZIP

Our Internal Billing Reference



**ALS Laboratory Group**

10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

Date:

Name:

Company:

**CUSTODY SEAL**

Date: 9/12/10 Time: 1645  
Name: B. BAYER  
Company: SEN

Seal Broken By:

Date: 5/13/10

**Appendix B**  
**C-141**

District I  
155 N. French Dr., Hobbs, NM 88240  
District II  
1001 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
100 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| Name of Company: Navajo Refining Co. LLC | Contact: Aaron Strange            |
| Address: 7406 South Main Lovington, NM   | Telephone No. 575-748-3311        |
| Facility Name: Lovington Plant           | Facility Type: Petroleum Refinery |

|               |               |           |
|---------------|---------------|-----------|
| Surface Owner | Mineral Owner | Lease No. |
|---------------|---------------|-----------|

**LOCATION OF RELEASE**

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

|                                                                                                                                          |                                                                                                                                                  |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Type of Release: Spill of Crude Naphtha Mix                                                                                              | Volume of Release: ~12 to 15 bbls                                                                                                                | Volume Recovered: ~ 7 to 9 bbls                |
| Source of Release: Underground Pipe Line                                                                                                 | Date and Hour of Occurrence: 04/21/2010 ~ 15:00                                                                                                  | Date and Hour of Discovery: 04/21/2010 ~ 15:10 |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Spoke with Carl Chavez from OCD Santa Fe (505-476-3490), and left voicemail with OCD Hobbs office (575-393-6161 extension 111). |                                                |
| By Whom? Aaron Strange                                                                                                                   | Date and Hour: 04/21/2010 at ~16:03 to Carl Chavez (OCD Santa Fe), and 04/21/2010 at ~16:28 to the OCD Hobbs office.                             |                                                |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                        | If YES, Volume Impacting the Watercourse.<br>NA                                                                                                  |                                                |

If a Watercourse was Impacted, Describe Fully.\*  
NA

Describe Cause of Problem and Remedial Action Taken.\*

On 04/21/2010 at ~ 15:10 a leak was found on the underground pipeline (Crude Naphtha Mix) that comes from Tank 1202. The Line was blocked in at the transfer pump and isolated until repairs are completed.

Describe Area Affected and Cleanup Action Taken.\*

The area affected is under the road (by the warehouse) where the line leaked and where the leak pooled up under the pipe rack. The plant vacuum truck immediately started to remove the standing liquid. It recovered approximately 7 to 9 barrels of product. A backhoe has excavated the contaminated soil. Safety and Environmental Solutions will be doing the delineation on the spill and any bottom hole sampling.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

|                                                                                                |                                  |                                   |
|------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------|
| Signature:  | <b>OIL CONSERVATION DIVISION</b> |                                   |
| Printed Name: Aaron Strange                                                                    | Approved by District Supervisor: |                                   |
| Title: Sr. Environmental Technician                                                            | Approval Date:                   | Expiration Date:                  |
| E-mail Address: aaron.strange@hollycorp.com                                                    | Conditions of Approval:          | Attached <input type="checkbox"/> |
| Date: 04/23/2010                                                                               | Phone: 575-703-5057              |                                   |

Attach Additional Sheets If Necessary





**Safety & Environmental Solutions**

**703 E. Clinton, P.O. Box 1613**

**Hobbs, New Mexico 88241**

**(575) 397-0510**

**Fax (575) 393-4388**

# Memorandum

**Date:** 11/15/10  
**To:** Carl Chavez, NMOCD  
**cc:** Darrell Moore, Navajo Refinery  
**From:** David G. Boyer  
**RE:** Boring and Monitor Well Logs

---

During the final printout of the soil boring and monitor well logs, the program used to generate the logs was corrupted and printing could not be completed. Therefore these logs are not included with this report. The problem will be reported to the software developer and we expect to have printouts by Friday, November 19.

I apologize for not providing these with the report. Please contact me at 575-397-0510 if you have any questions.

DGB/DGB

RECEIVED OGD  
2010 NOV 16 P 4:44

**Environmental Status Report  
Volume 1, Report Text, Tables Figures**

**Navajo Refining Company, Lea Refinery  
Lovington, New Mexico**

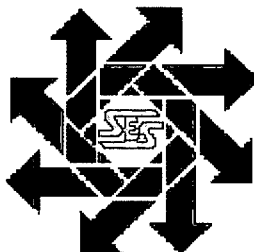
November 15, 2010

**Prepared for:**



**Navajo Refining Company  
501 East Main Street  
Artesia, New Mexico 88210**

***By:***



***Safety & Environmental Solutions, Inc.  
703 E. Clinton  
Hobbs, New Mexico 88240  
(575) 397-0510***

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## 1. Introduction

The Navajo Refining Company, Lea Refinery in Lovington, New Mexico operates under a Groundwater Discharge Plan (GW-014) issued by the New Mexico Oil Conservation Division (OCD). The location of the refinery is shown in Figure 1. The discharge plan addresses water and fluid discharges to the subsurface; spills and leaks to the ground surface; pits, ponds and below grade tanks and sumps; waste handling and other activities that have the potential to contaminate groundwater or adversely impact public health and the environment.

An Environmental Status Report was completed and submitted on November 6, 2009. The OCD required the report to update contaminant hydrogeology with emphasis on threats to the City of Lovington water supply from the facility. A 2009 monitoring report was presented to the agency and the City of Lovington in a meeting on October 8, 2009. The agency in an email dated October 22, 2009 evaluated the report as deficient in satisfying the permit conditions. Further communication with the agency extended the date for resubmittal of required information to November 6, 2009. Accordingly, on that date Navajo resubmitted the ESR together with separate information required by the agency.

The ESR report documented site lithology, proximity to City of Lovington and other water wells, groundwater conditions and the results of sampling conducted at the site during June 2009. The report also includes information on the area hydrogeology, the replacement of the original monitoring wells, lack of hydrocarbon product detected and possible reasons for such. Sections of that report on area hydrogeology and details of the monitor well replacement have been updated for the current report.

Also submitted with the ESR was a separate document entitled "Hydrocarbon Release Investigation, Navajo Refining Company, Lea Refinery, Lovington, New Mexico." That report details investigation of spills and releases that were the subject of C-141 reports to the agency and included as an attachment to the Discharge Plan document. The status of each investigation was detailed including removal of affected soil, borehole drilling and results of soil analyses. The report provided recommendations as to further action.

The OCD responded to the submitted reports with a letter dated December 10, 2009, listing deficiencies with the submitted material and requiring additional investigation including further investigatory borings, installation of additional monitoring wells, mapping of pipelines and additional actions required to be taken to protect groundwater. Navajo has undertaken these tasks with most completed as will be described later in this report.

A condition of the discharge plan is that an annual monitoring report be submitted to the OCD by April 15<sup>th</sup> of each year. A copy of the report is also to be submitted to the City of Lovington. The information that is to be submitted with the report includes:



1. A description of the monitoring and remediation activities that occurred during the year including conclusions and recommendations.
2. Summary tables listing laboratory analytical results of all water quality sampling for each monitoring point and plots of concentration vs. time for contaminants of concern from each monitoring point. Any WQCC constituent found to exceed the groundwater standard shall be highlighted. Copies of the most recent year's laboratory data sheets supporting plots shall also be submitted.
3. Water table (piezometric) and/or potentiometric surface elevation iso-concentration maps utilizing static water level data shall be included in the annual report to assess local and/or regional ground water flow direction(s). A corrected water table elevation shall be determined from all wells containing phase-separated hydrocarbons. Map shall show all monitoring, recovery, PSH and City of Lovington water supply wells, pertinent site features (i.e., pipelines, effluent lines, etc.) and the direction and magnitude of the hydraulic gradient. All maps shall be to scale. Chemical iso-concentration maps of any contaminants exceeding water quality standards are required.
4. Plots of water table elevation vs. time for each ground water monitoring point from monitoring data is required to assess water table fluctuations and potential for PSH smear zone development or dormancy\*.
5. Monthly and cumulative flow rates and volumes from PSH and recovery wells and the total recovered to date.
6. Product thickness maps from monitoring based on the thickness of Phases-Separated Hydrocarbons (PSH) or product on ground water in all refinery recovery and monitoring wells shall be included in the report. Maps shall include isopleths to the nearest 0.5 feet or iso-concentration lines to the nearest 10 ppb for organics, 10-100 ppm for metals, TDS, etc., for product and contaminants of concern detected during monitoring.
7. File this report in an acceptable electronic format along with hard copies to the City of Lovington and OCD Santa Fe.

The report was submitted to the agency on the required date with copies to the City of Lovington.

## **2. Background Information**

In September 1995 and April 1996 monitor wells were installed at the refinery to determine groundwater conditions and to document impacts to groundwater from activities at the refinery. Originally ten (10) monitor wells were installed with all but one located in the vicinity of the refinery process area. Later four (4) additional wells were installed in areas where spills or overtopping of tanks were reported. Those incidents were reported to the OCD and follow up investigation conducted including soil sampling and auger borings. Where there was concern that groundwater may have been impacted, additional groundwater monitoring wells were drilled.

City of Lovington water wells surround the refinery to the southwest, west, northwest and to the east on the east side of NM Highway 18. The locations of the City's wells were

shown on Plate 1 of the ESR together with other wells with information on file with the NM Office of the State Engineer. The closest water well to the Refinery is LW-9 approximately 200 feet upgradient from the refinery's north east property boundary. Wells to the west of the refinery are located 2,400 feet (LW-12, 0.45 miles) or greater from the property fence. The distances to the west range from 2,400 feet to 4,600 feet (0.9 miles). To the east, the closest well (LW-3) is about 1,100 feet (0.2 miles) and the distance from the refinery ranges from 1,100 feet to 4,000 feet.

Water levels in the vicinity of the refinery are declining due to withdrawal of water for refinery use from wells on the property and from the City's water wells. The average yearly water level decline through 2004-05 for monitor wells in the refinery process area was about 1.2 feet per year. That increased during the time period 2005-2008 to 1.3-1.4 feet per year. Measurements of the replacement wells from April to September 2009 show a possible loss of up to 2.4 feet per year. However, comparison of summer 2009 to summer 2010 water levels show an average decline of 1.5 feet per year.

Because of the accelerated decline in water levels, the ten replacement monitor wells drilled in spring 2009 were completed with a saturated water thickness of 15 to 24 feet which would allow use for approximately 10 to 16 years at an average decline of 1.5 feet per year.

### 3. Area Hydrogeology

The late Tertiary age Ogallala Formation underlies the site. It is composed of calcareous sands, silts, clays and gravels. The near-surface Ogallala sediments are often cemented with calcium carbonate (caliche). The caliche generally decreases with depth and is negligible at depths greater than 35 to 50 feet below the surface. However, though caliche is not present at depth, sandstone and siltstone may be present at various intervals throughout the lithologic column.

The regional groundwater flow direction of the Ogallala aquifer is generally toward the southeast but locally may be impacted by pumping of large volume water wells used for municipal, industrial or agricultural purposes.

The lithology of the sediments directly beneath the site is generally surficial caliche underlain by silty sand and sand to depth of the monitor wells. Splitspoon sampling of the sediments shows that deeper zones generally included sandstone and/or siltstone of varying thickness, consolidation and cementation.

Three geologic cross sections have been prepared using information from the first set of monitor wells installed in 1996\* and from work performed by SESI (Figures 4 to 7). The cross-sections generally show hard surface caliche being present to a depth of 5 to 10 feet with softer caliche below in a transition zone. Silty sand with some soft caliche is present

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\* Soil and Groundwater Investigation and Remediation Work Plan, Lea Refinery, Lea County, New Mexico, October 7, 1996, by Geoscience Consultants, LTD., Midland, Texas.

to a depth of 20 to 30 feet below the surface. Sand predominates to about 40 feet where sand alternating with sandstone occurs to about 70 to 80 feet. The sandstone varies in consolidation and cementation. Below that depth brown, very fine grained sand is present although some thin sandstone lenses were encountered.

#### 4. Work Performed

##### Installation of Additional Monitor Wells

At the direction of the OCD in their December 10, 2009 response to the ESR, Navajo drilled and installed fifteen (15) additional monitor wells in areas of the refinery which lacked coverage with the existing well placement. The well locations included placement on the four sides of the refinery plus additional interior locations to better define impacts from refinery operations together with possible impacts from previous and existing oil and gas well operations within and immediately adjacent to the refinery. The location of both the old and new wells is shown on Figure 2.

The fifteen wells were installed beginning with MW-18 in mid-May and continued through June 6 with the installation of MW-29. Drilling of MW-18 commenced on May 10 with an air rig with a 10-foot core barrel for collection of undisturbed samples as the bit advanced. Unfortunately, the occasional layers of caliche and sandstone blocked the barrel and gave unsatisfactory sample results. Further, the method was beyond the capability of the rig below 80 feet when it lost circulation. The rig was changed to mud rotary at that point and an additional 40 feet of hole was drilled. At that point mud circulation was lost and the hole was secured on May 14.

On May 18 a replacement driller, WDC Exploration and Wells of Peralta, NM arrived on site with a CME-85 hollow stem auger to complete this well. Due to problems with lost circulation, no suitable lithology was available below 80 feet though a cuttings sample was obtained for analysis at 90 feet.

Following completion of this well, work proceeded to drill and install wells in the following order: MW-19, MW-20, MW-21, MW-28, MW-15, MW-17, MW-16, MW-22, MW-23, MW-24, MW-26, MW-25, MW-27 and MW-29. The staggered schedule was used to avoid drilling in sensitive areas on weekends when, except for an operations crew, most refinery workers were off. Soil samples were collected at 10-foot intervals from the surface to the groundwater as requested by the OCD and analyzed by the Environmental Division of the ALS Laboratory Group in Houston, Texas. Analyses were performed for BTEX, TPH and chlorides. PID readings were measured in the field.

All wells were completed with two-inch diameter PVC pipe and a pre-packed three-inch diameter screen for reduction of fine-grained sediments in the well. The wells were developed in early July using a GeoTech Reclaimer air-driven stainless steel bailer powered with a small pancake compressor. Borehole lithology and borehole and well logs will be provided in the follow-up final report.

On July 19 the new wells were surveyed by a professional licensed New Mexico surveyor. Sampling of groundwater in the new and existing wells and the three refinery water wells was performed from August 11 to 25 using WQCC protocols including dedicated sample tubing, decontamination of the pump between wells, and proper sample storage and chain-of-custody requirements. Samples were also sent to ALS for analysis. Results of the water level measurements and water quality are also provided later in the report.

### **Drilling of Exploratory Boreholes**

Concurrent with drilling of the monitor wells, exploratory boreholes were advanced in two areas of the refinery identified by OCD as needing investigation. The first area was in the vicinity of the Crude Manifold Area located in the vicinity of MW-2. Drilling started on June 2 using the same drill rig, a CME-85, as was drilling the monitor wells. Samples were again collected every ten feet and submitted to ALS Laboratory Group for analysis. Boreholes were drilled from the surface to the water table with the final sample taken from several feet in the saturated zone. Boreholes were plugged back to the surface starting with a mixture of Quikgrout for the zone immediately above the water table followed by Holeplug bentonite, well hydrated.

## **5. Results of the Investigatory Drilling**

### **Soil Boring Results for Groundwater Monitoring Wells**

A summary table of soil analytical results of borings drilled for the 15 new monitor wells is shown in Table 1. The locations of the new wells are shown on the site plan, Figure 3. Most wells show no detections for organics and very low levels of soil chlorides. Detections for organics are discussed in the paragraphs below. Overall the boring results show no impacts from refinery operations on subsurface soils analyzed as part of the monitor well expansion program. Impacts, where they occur, are likely from oil and gas operations that predate construction of the refinery.

The table shows some elevated TPH levels in MW-18, MW-23 and MW-27. Levels in MW-18 down to about 60 feet may be due to issues having to do with the use of the air driven core barrel. As there was contamination at the surface, there may have been cross-contamination between the tools and the sampling zones. Also, the boring was drilled over three separate days and remained open (but covered) from May 11 until May 13 when the hollow stem auger began sampling. The May 13 sample from MW-18 at 90 feet was from cuttings returned to the surface and is unlikely to represent an undisturbed sample.

MW-23 is located near LA-10 which is a shut-in production well. Whether there are some impacts to MW-23 from that well or now plugged well LPU 92 is unknown.

MW-27 is located inside the berm surrounding several refinery tanks. However none are close by the well. MW-27 shows low level hydrocarbon impacts near the surface down to about 40 feet. The highest TPH (130 mg/kg) was seen in the sample taken at 10 feet. No impacts were seen below 40 feet.

MW-19 has elevated chloride levels over most all intervals. That may be a consequence of a release from active upgradient injection wells LSAU 13 or LPU 33, or a nearby covered reserved pit.

Oil and gas well records for wells nearby these three monitor wells were researched to see if there is an obvious potential source for the observed TPH or chloride levels. Available information in the OCD records does not provide an obvious event or source for the elevated levels observed and with the exception of MW-27 no current refinery operations are located near the monitor wells. The oil and gas wells in question were mainly drilled in the 1950's when environmental practices associated with oil and gas drilling and production were quite different than those today.

#### **Soil Boring Results for Borings at the Crude Manifold Area**

Soil boring results for the four borings in the vicinity of crude manifold are shown on Table 2. The locations of the borings are shown in Figure 8. It appears that a chloride source is near the location of CSB-4 as chlorides are elevated from the surface to 80 feet with the maximum concentration of 2,190 mg/Kg detected at 40 feet. Additionally, there is elevated TPH (660 mg/Kg) at 20 feet. The source of either is unknown as the current tank holds crude oil and not produced water or a mixture.

#### **Soil Boring Results for Borings at the Wastewater Separator Area**

Soil boring results for the eleven borings in the vicinity of wastewater separator area are shown on Table 3. The locations of the borings are shown in Figure 8. Chlorides are not significantly elevated however TPH and BTEX are elevated in borings WSB-2/8\* to 90 feet, WSB-4 to 90 feet, and WSB-5 to 90 feet. The 90 foot depth is likely the elevation of the water table at the time the leak occurred and it spread laterally when it reached the capillary fringe. Earlier water level measurements show that depth to groundwater was at 90 feet in 1995.

The elevated levels of TPH and BTEX (not including benzene) in WSB-2/8, WSB-4 and WSB-5 indicate that hydrocarbons remain in the soil pores. Benzene was not detected in any of the WSB BTEX samples and significantly elevated contamination was observed in the 20 to 60 foot range at the above three locations. Though some samples had severe staining and a very strong hydrocarbon odor, no saturation was observed in the samples.

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\* Soil boring 2 was drilled to 40 feet and then plugged as there was significant staining and odor. However after discussion it was decided to continue to drill provided no free product was encountered. The boring could not be reentered due to collapse and settling and a second boring WSB-8 was drilled to the southeast of immediately adjacent to WSB-2.

## 6. Groundwater Measurement and Sampling

### Water Level Measurements

Water levels in the vicinity of the refinery are declining due to withdrawal of water for refinery use from wells on the property and from the City's water wells. A detailed site plan showing the location of the existing and recently installed refinery monitoring wells is provided in Figure 3.

Water levels of all wells were measured on August 11, 2010. The monitoring wells at the Lea Refinery were gauged for depth to groundwater and total depth using a Solinst Model 101 water level meter. Monitor wells where phase-separated hydrocarbons may have been present were measured using an oil/water interface probe (Solinst Model 122).

### Groundwater Sampling

The following activities were conducted to measure groundwater levels and document the groundwater quality conditions in accordance with the OCD Groundwater Discharge Plan. The locations of the referenced wells are shown on Figure 3.

- Measured depth to groundwater in monitoring wells MW-1 through MW-29 and RW-1 prior to sampling. This was in addition to single-day measurements performed August 11, 2010.
- Measured free product thickness in monitoring wells RW-1, MW-1 and MW-7. No free product or even a hydrocarbon sheen was noted.
- Collected semi-annual groundwater samples from all monitor wells plus RW-1.
- Collected groundwater samples from the refinery's North, South and East water wells.

Groundwater measurements were scheduled to be made in mid-July. A series of purge pump failures delayed sampling commencement until mid-August. A Geotech SS Geosub 12V DC Sampling Pump was obtained that enabled low flow sampling pursuant to guidelines published by the New Mexico Environment Department. These included measuring drawdown while purging until measured parameters stabilize.

Low flow purging was performed using the above described pump dedicated vinyl tubing. The pump was decontaminated with Alconox detergent and clean water between samples. Groundwater parameters of conductivity, temperature and pH were measured during purging operations.

Samples taken for benzene, toluene, ethylbenzene, and total xylene (BTEX) and other volatiles analyses were transferred into air-tight, septum-sealed, 40-milliliter (ml) glass volatile organic analyte (VOA) sample vials with zero head space and preserved with HCl. Samples were placed in an ice-filled cooler immediately after collection and shipped to ALS Laboratory Group in Houston, Texas. The samples were analyzed for BTEX using EPA method SW8260. Chain of custody (COC) forms documenting sample

identification numbers, collection times, and delivery times to the laboratory were completed for each set of samples.

Samples collected for semi-volatiles analysis were placed in one-liter amber glass bottles, placed on ice and shipped to the laboratory for analysis by EPA method SW8270.

Samples collected for metals and anion/Total Dissolved Solids (TDS) analyses were collected in separate containers. Samples were collected as total metals and shipped to the laboratory overnight for laboratory filtration with a 0.45 micron filter and then preserved with HNO<sub>3</sub>. Samples for mercury were not field filtered. Samples for anion/TDS analysis were collected in liter plastic bottles and placed on ice. The samples were analyzed using methods EPA methods SW6020 for metals, and methods E300, SM2320B, and M2540C, respectively, for anions, alkalinity and TDS.

## 7. Groundwater Elevations, Flow Direction, and Hydraulic Gradient

Groundwater elevations for 2009 and the current year are summarized in Table 4. A water table elevation map (potentiometric surface) and directions of groundwater flow for August 2010 is shown in Figure 9.

The additional monitor wells installed in May and June 2010 provide much expanded groundwater elevation coverage at the refinery. It shows that contrary to the assumed general direction of groundwater flow to the southeast, groundwater movement is toward a very large groundwater cone of depression centered at the North and South water wells. Based on the water level data, water is moving to the refinery from all four directions and not moving from the refinery to the City of Lovington water wells as has been postulated.

Comparison was made of water levels taken in January 2010 and summer 2009 with those taken in August. For the 15 wells measured at that time, the average semi-annual decline was -0.62 feet. The smallest change from readings taken in January occurred in MW-13 (-0.04 feet) and the largest was in MW-3 (-1.53).

The average annual decline was -1.56 feet. The smallest change was -1.08 feet in MW-6 and the largest -2.17 feet in MW-3. That the greatest semi-annual and annual change occurred in MW-3 is not surprising as until this summer, it was the closest monitor well to the pumping wells.

The groundwater flow direction varies within the refinery. In the area of the process area it remains to the southeast with a gradient of 0.0036 ft/ft. In the area of the asphalt rack sump (between new MW-22 and MW-23), it is relatively flat with a gradient of 0.0024 in a westerly direction toward the pumping water wells. In the area of the south tank farm (100 series tanks) the direction of flow is northerly with a gradient of 0.0020.



However, closer to the north and south water wells the gradient is radial toward them and becomes increasingly steeper as you get closer to them. In the area of new MW-19 the gradient steepens to 0.015 ft/ft.

In the area of the east well, no cone was noticed due to its recent addition to the refinery (drilled in October 2005) and slight artistic license was used to show a potential impact on the map. It will be interesting to measure and plot declines with the winter round of readings to determine changes in the area of the new monitor wells and in the area of the pumping wells.

## 8. Distribution of Hydrocarbons in Groundwater

Phase Separated Hydrocarbon (PSH) was previously present in the vicinity of the wastewater separator (Figure 3). Measurements made subsequent to installation in the spring of 2009 of the new monitor wells show no PSH and no hydrocarbon sheen. These measurements were made in June, July, September and October 2009, and January, February, April and August 2010. Drilling of the new monitor wells did not detect free phase hydrocarbons in either drill core samples or in water quality samples taken subsequent to drilling. Some dissolved phase hydrocarbons are present in the existing wells as discussed below. No dissolved-phase volatiles were found in the new wells.

Analytical results for BETX and other SW 8260 volatiles in groundwater for the current sampling event are summarized in Table 5. SW8260 naphthalene and 8270 total naphthalenes are also shown. Constituents having detectable concentrations are shown in yellow with concentrations above the New Mexico Water Quality Control Commission (WQCC) standards highlighted in boldface type. The laboratory reports and COC documentation for samples obtained by SESI are included in Appendix E.

Based on the most recent analytical data for samples collected by SESI in August 2010 and shown in Table 5, the distribution of volatile hydrocarbons at the Lea Refinery is described below:

- Volatile hydrocarbon concentrations were below the laboratory detection limit and below WQCC standards in 11 of the 15 existing monitoring wells (includes RW-1 as a monitor well) and all 15 of the new monitor wells. Volatile hydrocarbons were also absent from the three refinery water wells. The method reporting limit for BTEX and most other volatile constituents is 0.0050 mg/L; the reporting limit for total xylenes is 0.015 mg/L.
- Volatile hydrocarbons were detected only in wells MW-6 (downgradient from the wastewater separator), in MW-11 directly downgradient from the refinery process area, in MW-13 (generally downgradient from MW-11), and in the recovery well at the wastewater separator, RW-1.
- Benzene in MW-11 decreased from 0.10 mg/L in June 2009 and 0.20 mg/L in January 2010 to 0.078 mg/L. However, benzene was detected in MW-13 for the first time at a

concentration of 0.016 mg/L. Of those volatiles detected, only benzene in MW-11 and MW-13 exceeded the relevant WQCC standard (0.010 mg/L). The benzene concentration map is shown in Figure 10

- Ethylbenzene was reported in MW-6 and MW-11 but at levels 50 and 35 times, respectively, lower than the WQCC standard of 0.75 mg/L. Xylenes 41 times lower than the standard of 0.62 mg/L were seen in recovery well RW-1.
- Naphthalene and/or methyl-naphthalene was detected in wells MW-6, the well directly downgradient from the wastewater separator, and in MW-11. Both concentrations (0.0034 mg/L and 0.00036 mg/L, respectively) are well below the standard of 0.03 mg/L. A map showing locations of BTEX and naphthalene detections is shown in Figure 11.
- Other semi-volatiles detected in MW-6 included acetophenone; there is not a listed water quality standard for this constituent or the various phenols and phthalates. Phenol was not detected in MW-1, MW-6 and RW-1; however various phenolic derivatives were detected in MW-6.
- Various semi-volatile phthalates were seen in all samples including those from the water wells except for MW-28. The likely source in the monitor wells was the PVC casing or the dedicated tubing. The low levels in the water wells were likely laboratory contamination. Phthalates or phthalate esters, are esters of phthalic acid and are mainly used as plasticizers (substances added to plastics to increase their flexibility, transparency, durability, and longevity). The January detection of the semi-volatile caprolactam in many samples was not repeated with the current results. That it was also not detected in June of 2009 leads to the conclusion that it is a laboratory artifact and not present in the refinery groundwater.

## 9. Sampling Results for Inorganic Constituents

Sampling was conducted for major cations and anions, total dissolved solids (TDS) and WQCC metals. The results of the sampling are shown in Table 6. The results are highlighted below:

- Results of major anion and TDS sampling in August showed exceedances of the chloride and TDS standards in four existing wells (MW-2, MW-6, MW-8, and MW-13), four new monitor wells (MW-17, MW-19, and MW-23), and the south water well. At MW-29 chloride in the sample exceeded the standard but not in the duplicate sample. Neither of the two TDS samples exceeded the standard leading to the conclusion that the reported elevated chloride concentration at MW-29 is in error. Figures 12 and 13 present the chloride and TDS concentrations at the refinery and figure 14 shows the fluoride concentrations.

- Analytical results of sampling for WQCC metals showed no detections in excess of WQCC standards except for manganese and iron, which are usually indicators of a reducing chemical environment due to lack of oxygen the groundwater in the vicinity of the wells. The iron and manganese concentrations are shown in Figure 15. Manganese exceeded the groundwater standard of 0.20 mg/L in existing wells MW-1, MW-6, MW-11 and MW-13. This is the first detection of manganese in MW-13 and it is coincident with the first low level detection of benzene this sampling. New well MW-18 also has a slightly elevated manganese concentration. Though detected in MW-11, iron exceeds the WQCC standard only in Mw-6. These wells also have or had dissolved phase hydrocarbon impacts which most likely have changed the groundwater environment in the immediate proximity of the wells from aerated to anoxic conditions. Manganese and iron in the environment commonly become soluble in the absence of oxygen.

A chloride concentration map of the refinery is shown in Figure 12. The map shows chloride concentrations exceeding 200 mg/L in the vicinity of the refinery process area. Within the process area, Navajo has replaced and tested the wastewater sewer system and the oil desalter sumps. However, wells MW-2 and MW-15 with concentrations approaching or slightly exceeding the standard of 250 mg/L are upgradient of the process area but downgradient from several older oil and gas production areas located just to the northwest and outside the refinery boundary.

The changes in chloride and total dissolved solids concentrations at both MW-1 and MW-6 are puzzling. These values have declined and in the case of MW-1 significantly so from sampling conducted in January 2010 (Table 6). Adjacent wells MW-7 and RW-1 (located within 15-20 of MW-1) do not show similar fluctuations in concentration. All wells were completed in the same manner and are screened over the same interval. Upgradient wells MW-4 and MW-16 do not show increased chloride concentrations nor fluctuations. It may be possible that the concentrations are artifacts from the former wastewater leak as no other explanation is readily available. However, groundwater temperatures which were elevated in the past due to proximity to hot water from the now eliminated leak are now nominal for the area excluding a current leak as a cause.

MW-13, with chloride concentration of 604 mg/L and TDS of 2,210 mg/L, is downgradient from a now-inactive oil and gas production site within the refinery itself. Both concentrations have increased from the June 2009 sampling (Table 6). In recent years the two wells, LSAU 9 and LPU 22, injected waste salt water and could be a potential source of contamination if the well casings had diminished integrity. Both of these wells are now plugged. Unfortunately, in addition to elevated chloride and TDS the most recent sampling detected benzene in the well as described above.

Information on these two oil wells and possible integrity problems was researched and summarized in Appendix D of the November 6, 2009 ESR. The south well, Lovington Paddock Unit #22, reported a tubing leak in 1997 downhole at a depth of approximately 3,120 feet. The tubing joint and adjacent joints were replaced and it passed an integrity

test. However, it appears from aerial photographs presented in the ESR that the drilling mud pit was located in the vicinity of MW-13 which could be a source for chlorides seen in the well.

Several of the new monitor wells show elevated level of chloride and TDS. These wells include upgradient well MW-15, off-gradient well MW-17 and two others located within the refinery water wells cone of depression: MW-19 and MW-23. All of these are located in proximity to active, shut-in or plugged oil and gas wells as shown on Figure 3. MW-23 is downgradient from well LA-10 which shows its current status as a shut-in injection well.

Lastly, the south water well continues to have just under 500 mg/L of chloride and nearly 1,800 mg/L of total dissolved solids. The refinery itself is not believed to be the source of the chlorides detected. There are numerous oil and gas wells on and in the vicinity of the refinery. Though the OCD has banned pits in the area since at least 1967 older discharges to unlined impoundments had the potential to migrate to groundwater and cause elevated levels of chloride and TDS.

The groundwater flow direction at the water wells is radial inward. At south well location oil and gas production facilities exist to the south and southwest of the refinery property. There are two nearby active injection wells (LSAU 13 and LPU 33, Figure 3).

MW-19 and MW-20 were drilled to determine if these wells may have been the cause for the elevated chloride and TDS concentrations seen in the south well. MW-20 has a chloride and TDS concentration of 169 and 868 mg/L respectively and the concentrations in MW-19 are 469 and 1,650 mg/L. The direction of groundwater flow is north toward the water well and the two injection wells are in between and directly in line with flow from the monitor wells to the water well. The conclusion is that there is a great likelihood that the elevated concentrations of chloride and TDS seen in the water well are from one or both of the injection wells or their associated buried reserve pits.

#### 10. Groundwater Temperature

Measurement of groundwater temperature in the vicinity of the wastewater separator has shown elevated levels as high as 28.4° centigrade (83.1° Fahrenheit) in MW-9 in August 2001. The elevated temperatures compared to normal summer temperatures of 20-22° C (68-72° F) were considered evidence of a leak in the wastewater system as the separator contained hot water.

Navajo completed emptying, cleaning and sealing the wastewater separator system in 2003. The sumps were sandblasted and coated with oil and waterproof sealants and static tested. Sampling subsequent to that time showed a decline in temperatures though measurement was difficult as water levels declined and wells dried up.

Sampling of the new wells conducted in June 2009 and in January and August 2010 show no significant difference in temperatures between monitor wells. In August 2010

upgradient well MW-4 had a temperature of 22.4° C (72.3° F) at the conclusion of purging. MW-1, MW-7 and RW-1 located adjacent to the separator had temperatures of 22.9° C (73.2° F), 24.8° C (76.6° F) and 22.4° C (72.3° F) after purging. These results lead to the conclusion that the retrofitting of the wastewater separator performed by Navajo has stopped leakage of fluids from the unit.

## 11. Oil Recovery

Hydrocarbon product had been detected in groundwater in the vicinity of the wastewater separator at the Lea Refinery since installation of the first monitor wells in September 1995. A recovery well and an air sparge/soil vapor extraction system was installed at the facility in November 1996. The system included seven air sparge/vapor extraction wells and a Xitech oil recovery pump in RW-1 to remove the source of contamination. A total of 160 gallons of free product was recovered along with 8,870 lbs of TVHC (Total volatile hydrocarbons). The system was shut down in September 1999 because the most recent BTEX and TVHC samplings showed concentrations below detection limits and product had been mostly removed from the monitor wells.

However in 2000-2001 product again increased in the two nearby monitor wells (located within 15-20 feet of the recovery well). The Xitech pump recovered product from the RW-1 which was transferred to a storage container for further recycling to the refinery. The total volume recovered is somewhat in excess of 250 gallons (6 barrels).

In 2001 the depth to product varied depending on pump operation. Product thickness varied from less than 0.01 feet to 4.5 feet. Depth to water was 96.5 feet. However, a downgradient monitor well about 50 feet away on the other side of the wastewater separator did not detect measurable hydrocarbon and very little dissolved phase hydrocarbon.

By 2007 the water table in the vicinity of the recovery well had declined so that product and water in the two monitor wells (MW-1 and MW-7) was not detected (i.e. they were dry). In 2008 the water and product levels in the recovery well (RW-1) had declined so that the installed recovery pump could no longer recover product. At the time of the last measurements of the old wells on March 17, 2009, MW-1 and MW-7 remained dry and in recovery well RW-1 product was 0.6 feet thick and there was slightly over 3 feet of fluid in the well.

Groundwater measurements made in April, June, July, September and October 2009, and January, February, April and August 2010 have not shown any hydrocarbon product in any of the three replacement wells. These measurements are shown Table 4.

A plausible reason for the absence of product in the wells is that the leak had been stopped and what was seen in the old wells was oil from the leak seeping through the intervening sandy material to the water table. By drilling new wells adjacent to the old ones, oil in the formation was removed in the drilling process and what is left there is mainly held by capillary forces and little or none will drain by gravity. The design of the

wells is such that any further leaks will be detected during quarterly measurements to allow early remedial action and product recovery.

## **12. Spill Report Investigation**

Two releases of hydrocarbons requiring subsurface investigation are summarized with this status report. The detailed results of the investigations are to be provided in a supplemental section to be submitted on November 19.

A run-over from Tank 1214 in July 2009 resulted in a release of 25 barrels of gas oil with 15 barrels recovered. SESI drilled three borings from 10 to 20 feet below the surface. Impacts were limited to the top several feet with the exception of minor toluene (0.0033 mg/Kg) at 20 feet in one sample. The contaminated soil was dug out and taken to CRI for disposal. No benzene was detected in any of the subsurface samples.

A release of crude-naphtha mix from a leak in a pipeline under a refinery road crossing occurred in April 2010. An estimated 12 to 15 barrels was released with 7 to 9 barrels recovered. The liquid flowed about 200 feet southeast on the northeast side of the ground-level pipe run to a low area near the water well pump house where it ponded. SESI drilled one boring to a depth of 34 feet. No contamination was found at a depth of 14 feet or below. SESI recommended the area be dug out to remove the contamination with the material transported to CRI for disposal.

## **13. Status of Nearby Oil and Gas Wells**

The status of nearby oil and gas wells is shown on Figure 16. The conditions shown are active producing, injection (active injection or injection - plugged and abandoned), temporary abandoned, and plugged and abandoned.

## **14. Potential Receptors**

Neither hydrocarbon product nor a dissolved phase hydrocarbon plume has been detected from the wastewater separator area during the current investigation. However, if a plume was detected, the nearest receptor is the refinery's north water supply well located about 1,000 feet downgradient of the release previously described in Section 9 above. The water supply wells are monitored semi-annually for WQCC constituents (which include many drinking water parameters) but the water supply is used for refinery makeup water and non-drinking water uses such as restrooms.

Previously locations of the City of Lovington water supply wells were supplied with the November 2009 ESR (Plate 1). The nearest well, Lovington #9 is about 1,330 feet from MW-11 and 1,430 feet from the area of the wastewater separator release. This well was not considered a potential receptor as localized groundwater flow is southeast toward the Navajo pumping water wells. The other identified water supply wells were not presently considered potential receptors based on their distance from the refinery and current information on groundwater flow direction. This information and the conclusion that conditions at the refinery are not impacting city water wells was reinforced when the

expanded groundwater map was prepared following installation of the new monitor wells at the refinery.

## 15. Conclusions

- With the exception of MW-11 and MW-13, benzene concentrations in all wells are below method reporting levels and below WQCC and EPA drinking water standards. The August 2010 level of 0.078 mg/L in MW-11 is reduced from levels seen in 2009 and January 2010 but is still 8 times above the WQCC standard. The detection in MW-11 and probably MW-13 (0.016 mg/L) is likely due to past releases in the refinery process area. Navajo is retrofitting the process units during refinery expansion and to comply with other provisions of the discharge plan to prevent spills and leaks.
- No hydrocarbon product has been found or hydrocarbon sheens detected in the replacement monitor wells adjacent to the wastewater separator. Groundwater temperatures in these wells are comparable to temperatures in monitor wells away from the area. This leads to the conclusion that the retrofitting completed by Navajo at the separator seven years ago has solved the problem of wastewater fluids and oil leaking to the groundwater.
- Minor dissolved concentrations of ethylbenzene and various naphthalene compounds were found in the three replacement wells located adjacent to the northwest side of the wastewater separator, and in the downgradient monitor well on the southeast side (MW-6). However concentrations of these constituents are well below WQCC standards.
- No volatile organic compounds were found in the refinery water supply wells. Chloride and TDS in the south water well exceed WQCC standards. Because water from the wells is used by the refinery for hand washing, showering, etc., the wells are now monitored for BTEX on at least a semi-annual basis.
- Based on the groundwater flow map and sample results, it appears that the elevated concentrations of chloride and TDS in monitor wells and the south water well are from non-refinery sources. The likely source of chlorides in the process area is migration from upgradient oil production areas northwest of the refinery boundary. The likely source of chlorides in MW-13 is the now inactive oil production/injection well (including a possible drilling pit) site southeast of MW-11. The likely source of chlorides in the south water well is from oil production areas to the south and southwest of the refinery boundary.

## 16. Status of Investigatory Work

1. Mapping and identification of 23 active, inactive and plugged and abandoned oil and gas production and injection wells within the refinery and on the periphery. This work has been completed and a map showing the location and status of these well is included with this report (Figures 3 and 16).

2. Mapping and identification of all Navajo and Holly pipelines entering and leaving the refinery and on the periphery including crude lines, product lines and effluent lines operated by Navajo, Holly or other entities. Work to locate and identify pipelines entering and leaving the refinery has been completed. The results are shown on Plate 2 and Table 7.
3. Mapping and identification of all Navajo and Holly Energy Partners incoming and outgoing crude and product lines through the City of Lovington's well field. This work has been completed and the results are shown on Plate 2.
4. Obtaining and reviewing City of Lovington water well records for drilling and well completion information. This work is partially complete. Records of most water wells to the north and west of the refinery have been located. Records of the three water supply wells at the refinery were located and were included with the annual report submitted in April. As a result of water levels from the newly added monitor wells showing a cone of depression centered on the refinery water wells and no current groundwater movement outside of the refinery boundaries (Figure 9), it is requested that additional work on this OCD request be suspended.
5. Obtaining and reviewing pumping volumes, rates and pumping schedules for all pumping water wells previously identified. This work has not yet been performed. As a result of water levels from the newly added monitor wells showing a cone of depression centered on the refinery water wells and no current groundwater movement outside of the refinery boundaries (Figure 9), it is requested that this work be limited to the three refinery water wells. Also aquifer testing of the aquifer at the refinery has been rescheduled for mid-December.
6. Field checking of non-City of Lovington water wells shown on Plate 1 of the Environmental Status Report. This work has not yet been performed and as a result of the conclusion in #5 above it is requested that it be dropped.
7. Locating and drilling the additional monitor wells requested by OCD in the December 10 letter. This work has been completed and the work summarized in this report.
8. Similarly, work to define possible contamination at the crude manifold and wastewater separator areas has been completed and the results discussed above.
9. The next semi-annual monitoring event will be scheduled for early January 2011. OCD and the City of Lovington will be notified two weeks in advance of the date of the sampling.

## 17. Recommendations

In addition to semi-annual sampling Navajo recommends that the three water supply wells be monitored on a quarterly basis for selected WQCC constituents including BTEX, chloride, and total dissolved solids. These few parameters will provide the refinery with sufficient information to detect an unanticipated excursion of contaminants from an unexpected source.



## **18. Report Tables and Figures**

**Table 1. Soil Boring Results, Monitor Wells, Navajo Refining Company,  
Lea Refinery, Lovington, NM.**

Table 1. Soil Boring Summary Results, Monitor Wells

| Well ID and Date (2010) | Boring Depth (feet) | Concentration Units: mg/Kg |              |              |                                |                                      |                       |
|-------------------------|---------------------|----------------------------|--------------|--------------|--------------------------------|--------------------------------------|-----------------------|
|                         |                     | GRO (RL 0.050)             | DRO (RL 1.7) | MRO (RL 3.4) | TPH concentration <sup>1</sup> | Total BTEX <sup>2</sup> (RL <0.0010) | Chloride <sup>3</sup> |
| MW-15                   |                     |                            |              |              |                                |                                      |                       |
| 5/22                    | 10                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.82                 |
| 5/22                    | 20                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.84                 |
| 5/22                    | 30                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.78                 |
| 5/22                    | 40                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.96                 |
| 5/22                    | 55                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 6.37                  |
| 5/22                    | 60                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 6.39                  |
| 5/22                    | 70                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 6.36                  |
| 5/22                    | 80                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 7.08                  |
| 5/22                    | 90                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.87                 |
| 5/22                    | 100                 | ND                         | ND           | ND           | <5.1                           | ND                                   | 5.99                  |
| 5/23                    | 105                 | ND                         | ND           | ND           | <5.1                           | ND                                   | 10.6                  |
| MW-16                   |                     |                            |              |              |                                |                                      |                       |
| 5/24                    | 10                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 39.0                  |
| 5/24                    | 15                  | ND                         | ND           | 26           | 26                             | ND                                   | 30.6                  |
| 5/24                    | 20                  | 0.32                       | ND           | ND           | 0.32                           | ND                                   | <4.99                 |
| 5/24                    | 30                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.95                 |
| 5/24                    | 40                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.98                 |
| 5/24                    | 50                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 12.8                  |
| 5/24                    | 60                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.98                 |
| 5/24                    | 70                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.95                 |
| 5/24                    | 80                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.99                 |
| 5/24                    | 90                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.98                 |
| 5/24                    | 100                 | ND                         | ND           | ND           | <5.1                           | ND                                   | <5.00                 |
| 5/24                    | 105 (w)             | ND                         | ND           | ND           | <5.1                           | ND                                   | 6.40                  |
| MW-17                   |                     |                            |              |              |                                |                                      |                       |
| 5/23                    | Surface - 2 feet    | ND                         | 8.5          | 63           | 72                             | 0.0031 (T)                           | 4.90                  |
| 5/23                    | 10                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 15.4                  |
| 5/23                    | 20                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 17.2                  |
| 5/23                    | 30                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 150                   |
| 5/23                    | 40                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 120                   |
| 5/23                    | 50                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 79                    |
| 5/23                    | 60                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 40.3                  |
| 5/23                    | 70                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 10.6                  |
| 5/23                    | 80                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 7.24                  |
| 5/23                    | 90                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.86                 |
| 5/23                    | 100 (w)             | ND                         | ND           | ND           | <5.1                           | ND                                   | 47.9                  |
| MW-18                   |                     |                            |              |              |                                |                                      |                       |
| 5/10                    | 0 - 0.5             | ND                         | 100          | 32           | 132                            | ND                                   | 12.4                  |
| 5/10                    | 9 - 10              | ND                         | 6.9          | ND           | 6.9                            | ND                                   | 16.9                  |
| 5/10                    | 19 - 20             | ND                         | ND           | ND           | <5.1                           | ND                                   | 14.9                  |
| 5/10                    | 27 - 29             | ND                         | 3.9          | 6.8          | 10.7                           | ND                                   | 18.0                  |
| 5/11                    | 39 - 40             | ND                         | ND           | 3.8          | 3.8                            | ND                                   | 52.1                  |
| 5/11                    | 49 - 50             | ND                         | ND           | ND           | <5.1                           | ND                                   | 50.3                  |
| 5/11                    | 60 - 61             | ND                         | 6.0          | 58           | 64.0                           | ND                                   | 42.7                  |
| 5/11                    | 69 - 70             | ND                         | ND           | ND           | <5.1                           | ND                                   | 70.5                  |
| 5/11                    | 79 - 80             | ND                         | ND           | ND           | <5.1                           | ND                                   | 44.1                  |
| 5/13                    | 90                  | ND                         | 20           | 130          | 150                            | 0.0056 (E,X)                         | 25.7                  |

Table 1. Soil Boring Summary Results, Monitor Wells

|                         |                     | Concentration Units: mg/Kg |              |              |                                |                                      |                       |
|-------------------------|---------------------|----------------------------|--------------|--------------|--------------------------------|--------------------------------------|-----------------------|
| Well ID and Date (2010) | Boring Depth (feet) | GRO (RL 0.050)             | DRO (RL 1.7) | MRO (RL 3.4) | TPH concentration <sup>1</sup> | Total BTEX <sup>2</sup> (RL <0.0010) | Chloride <sup>3</sup> |
| MW-19                   |                     |                            |              |              |                                |                                      |                       |
| 5/19                    | 10                  | ND                         | ND           | 12           | 12                             | ND                                   | 1,620                 |
| 5/19                    | 20                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 153                   |
| 5/19                    | 30                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 268                   |
| 5/19                    | 40                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 144                   |
| 5/19                    | 50                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 119                   |
| 5/19                    | 60                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 99.2                  |
| 5/19                    | 70                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 107                   |
| 5/19                    | 80                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 41.8                  |
| 5/19                    | 90                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 55.2                  |
| 5/19                    | 100 (w)             | ND                         | ND           | ND           | <5.1                           | ND                                   | 206                   |
| MW-20                   |                     |                            |              |              |                                |                                      |                       |
| 5/20                    | 10                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 11.6                  |
| 5/20                    | 20                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 6.87                  |
| 5/20                    | 30                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 13.5                  |
| 5/20                    | 40                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.73                 |
| 5/20                    | 50                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.88                 |
| 5/20                    | 60                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 11.3                  |
| 5/20                    | 70                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.94                 |
| 5/20                    | 80                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <5.00                 |
| 5/20                    | 90                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.64                 |
| 5/20                    | 95                  | ND                         | ND           | 5.1          | 5                              | ND                                   | 6.89                  |
| MW-21                   |                     |                            |              |              |                                |                                      |                       |
| 5/21                    | 10                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 5.52                  |
| 5/21                    | 20                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 7.76                  |
| 5/21                    | 30                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 5.80                  |
| 5/21                    | 40                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.88                 |
| 5/21                    | 50                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.74                 |
| 5/21                    | 60                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.81                 |
| 5/21                    | 70                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.91                 |
| 5/21                    | 80                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.87                 |
| 5/21                    | 90                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 6.16                  |
| 5/21                    | 95 (w)              | ND                         | ND           | ND           | <5.1                           | ND                                   | 27.6                  |
| MW-22                   |                     |                            |              |              |                                |                                      |                       |
| 5/25                    | 10                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 9.35                  |
| 5/25                    | 20                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 88.5                  |
| 5/25                    | 30                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 14.3                  |
| 5/25                    | 40                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <5.00                 |
| 5/25                    | 50                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <4.99                 |
| 5/25                    | 60                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 7.20                  |
| 5/25                    | 70                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 6.75                  |
| 5/25                    | 80                  | ND                         | ND           | ND           | <5.1                           | ND                                   | <5.00                 |
| 5/25                    | 90                  | ND                         | ND           | ND           | <5.1                           | ND                                   | 13.2                  |
| 5/25                    | 95 (w)              | ND                         | ND           | ND           | <5.1                           | ND                                   | 9.76                  |

Table 1. Soil Boring Summary Results, Monitor Wells

|                         | Concentration Units: mg/Kg |                |              |              |                                |                                      |                       |
|-------------------------|----------------------------|----------------|--------------|--------------|--------------------------------|--------------------------------------|-----------------------|
| Well ID and Date (2010) | Boring Depth (feet)        | GRO (RL 0.050) | DRO (RL 1.7) | MRO (RL 3.4) | TPH concentration <sup>1</sup> | Total BTEX <sup>2</sup> (RL <0.0010) | Chloride <sup>3</sup> |
| MW-23                   |                            |                |              |              |                                |                                      |                       |
| 5/26                    | 10                         | ND             | 4.2          | 54           | 58                             | ND                                   | 6.70                  |
| 5/26                    | 20                         | ND             | ND           | ND           | <5.1                           | ND                                   | 6.80                  |
| 5/26                    | 30                         | ND             | 2.8          | 31           | 34                             | ND                                   | 11.9                  |
| 5/26                    | 40                         | ND             | ND           | 11           | 11                             | ND                                   | 10.3                  |
| 5/26                    | 50                         | ND             | ND           | 6.1          | 6.1                            | ND                                   | 10.1                  |
| 5/26                    | 60                         | ND             | 2.0          | 17           | 19                             | ND                                   | 12.6                  |
| 5/26                    | 70                         | ND             | ND           | 7.3          | 7.3                            | ND                                   | 10.9                  |
| 5/26                    | 80                         | ND             | ND           | 5.4          | 5.4                            | ND                                   | 13.7                  |
| 5/26                    | 90                         | ND             | ND           | ND           | <5.1                           | ND                                   | 9.57                  |
| 5/26                    | 95                         | ND             | ND           | ND           | <5.1                           | ND                                   | 7.31                  |
| 5/26                    | 100 (w)                    | ND             | ND           | ND           | <5.1                           | ND                                   | 91.9                  |
| MW-24                   |                            |                |              |              |                                |                                      |                       |
| 5/26                    | 10                         | ND             | ND           | ND           | <5.1                           | ND                                   | 17.3                  |
| 5/26                    | 20                         | ND             | ND           | ND           | <5.1                           | ND                                   | 9.34                  |
| 5/26                    | 30                         | ND             | ND           | ND           | <5.1                           | ND                                   | <5.00                 |
| 5/26                    | 40                         | ND             | ND           | ND           | <5.1                           | ND                                   | 6.98                  |
| 5/26                    | 50                         | ND             | ND           | ND           | <5.1                           | ND                                   | 8.60                  |
| 5/26                    | 60                         | ND             | ND           | ND           | <5.1                           | ND                                   | 6.79                  |
| 5/26                    | 70                         | ND             | ND           | ND           | <5.1                           | ND                                   | 9.81                  |
| 5/26                    | 80                         | ND             | ND           | ND           | <5.1                           | ND                                   | 5.19                  |
| 5/26                    | 90                         | ND             | ND           | ND           | <5.1                           | ND                                   | <5.00                 |
| 5/26                    | 95                         | ND             | ND           | ND           | <5.1                           | ND                                   | <4.99                 |
| 5/26                    | 100                        | ND             | ND           | ND           | <5.1                           | ND                                   | <5.00                 |
| 5/26                    | 105 (w)                    | ND             | ND           | ND           | <5.1                           | ND                                   | <5.00                 |
| MW-25                   |                            |                |              |              |                                |                                      |                       |
| 6/4                     | 10                         | ND             | ND           | ND           | <5.1                           | ND                                   | <4.99                 |
| 6/4                     | 20                         | ND             | ND           | ND           | <5.1                           | ND                                   | <5.00                 |
| 6/4                     | 30                         | ND             | ND           | ND           | <5.1                           | ND                                   | <4.99                 |
| 6/4                     | 40                         | ND             | ND           | ND           | <5.1                           | ND                                   | 6.95                  |
| 6/4                     | 50                         | ND             | ND           | ND           | <5.1                           | ND                                   | 6.56                  |
| 6/4                     | 60                         | ND             | ND           | ND           | <5.1                           | ND                                   | 7.16                  |
| 6/4                     | 70                         | ND             | ND           | ND           | <5.1                           | ND                                   | 8.43                  |
| 6/4                     | 80                         | ND             | ND           | ND           | <5.1                           | ND                                   | 6.05                  |
| 6/4                     | 90                         | ND             | ND           | ND           | <5.1                           | ND                                   | <4.91                 |
| 6/4                     | 100                        | ND             | ND           | ND           | <5.1                           | ND                                   | 5.36                  |
| 6/4                     | 105                        | ND             | ND           | ND           | <5.1                           | ND                                   | 6.40                  |
| 6/4                     | 110 (w)                    | ND             | ND           | ND           | <5.1                           | ND                                   | 37.9                  |
| MW-26                   |                            |                |              |              |                                |                                      |                       |
| 6/2                     | 10                         | ND             | ND           | 5.3          | 5.3                            | ND                                   | <4.97                 |
| 6/2                     | 20                         | ND             | ND           | ND           | <5.1                           | 0.0024 (T <sup>3</sup> )             | <4.94                 |
| 6/2                     | 30                         | ND             | ND           | ND           | <5.1                           | 0.0022 (T <sup>3</sup> )             | <4.98                 |
| 6/2                     | 40                         | ND             | ND           | ND           | <5.1                           | 0.0018 (T <sup>3</sup> )             | 7.70                  |
| 6/2                     | 50                         | ND             | ND           | ND           | <5.1                           | 0.0017 (T <sup>3</sup> )             | <5.00                 |
| 6/2                     | 60                         | ND             | ND           | ND           | <5.1                           | 0.0016 (T <sup>3</sup> )             | <4.95                 |
| 6/2                     | 70                         | ND             | ND           | ND           | <5.1                           | 0.0015 (T <sup>3</sup> )             | <4.92                 |
| 6/2                     | 80                         | ND             | ND           | ND           | <5.1                           | 0.0017 (T <sup>3</sup> )             | <4.96                 |
| 6/2                     | 90                         | ND             | ND           | ND           | <5.1                           | 0.0024 (T <sup>3</sup> )             | <4.99                 |
| 6/2                     | 100                        | ND             | ND           | ND           | <5.1                           | 0.0013 (T <sup>3</sup> )             | <4.99                 |
| 6/2                     | 105                        | ND             | ND           | ND           | <5.1                           | ND                                   | <4.95                 |
| 6/2                     | 110 (w)                    | ND             | ND           | ND           | <5.1                           | ND                                   | 19.3                  |

Table 1. Soil Boring Summary Results, Monitor Wells

|                                                                                                | Concentration Units: mg/Kg |                |              |              |                                |                                      |                       |
|------------------------------------------------------------------------------------------------|----------------------------|----------------|--------------|--------------|--------------------------------|--------------------------------------|-----------------------|
| Well ID and Date (2010)                                                                        | Boring Depth (feet)        | GRO (RL 0.050) | DRO (RL 1.7) | MRO (RL 3.4) | TPH concentration <sup>1</sup> | Total BTEX <sup>2</sup> (RL <0.0010) | Chloride <sup>3</sup> |
| MW-27                                                                                          |                            |                |              |              |                                |                                      |                       |
| 6/5                                                                                            | 10                         | ND             | ND           | 130          | 130                            | ND                                   | 6.51                  |
| 6/5                                                                                            | 20                         | ND             | ND           | 22           | 22                             | ND                                   | 8.24                  |
| 6/5                                                                                            | 30                         | ND             | ND           | ND           | <5.1                           | ND                                   | 17.3                  |
| 6/5                                                                                            | 40                         | ND             | ND           | 30           | 30                             | ND                                   | 11.2                  |
| 6/5                                                                                            | 50                         | ND             | ND           | ND           | <5.1                           | ND                                   | 12.3                  |
| 6/5                                                                                            | 60                         | ND             | ND           | ND           | <5.1                           | ND                                   | 7.06                  |
| 6/5                                                                                            | 70                         | ND             | ND           | ND           | <5.1                           | ND                                   | 13.2                  |
| 6/5                                                                                            | 80                         | ND             | ND           | ND           | <5.1                           | ND                                   | 14.6                  |
| 6/5                                                                                            | 90                         | ND             | ND           | ND           | <5.1                           | ND                                   | 5.3                   |
| 6/5                                                                                            | 100                        | ND             | ND           | ND           | <5.1                           | ND                                   | <5.0                  |
| 6/5                                                                                            | 105 (w)                    | ND             | ND           | ND           | <5.1                           | ND                                   | 28                    |
| MW-28                                                                                          |                            |                |              |              |                                |                                      |                       |
| 5/22                                                                                           | 10                         | ND             | ND           | ND           | <5.1                           | ND                                   | 12.1                  |
| 5/22                                                                                           | 20                         | ND             | ND           | ND           | <5.1                           | ND                                   | 34.9                  |
| 5/22                                                                                           | 30                         | ND             | ND           | ND           | <5.1                           | ND                                   | 32.1                  |
| 5/22                                                                                           | 40                         | ND             | ND           | ND           | <5.1                           | ND                                   | 31.0                  |
| 5/22                                                                                           | 50                         | ND             | ND           | ND           | <5.1                           | ND                                   | 34.3                  |
| 5/22                                                                                           | 60                         | ND             | ND           | ND           | <5.1                           | ND                                   | 9.64                  |
| 5/22                                                                                           | 70                         | ND             | ND           | ND           | <5.1                           | ND                                   | <4.85                 |
| 5/22                                                                                           | 80                         | ND             | ND           | ND           | <5.1                           | ND                                   | 6.14                  |
| 5/22                                                                                           | 90                         | ND             | ND           | ND           | <5.1                           | ND                                   | <4.65                 |
| 5/22                                                                                           | 100                        | ND             | ND           | ND           | <5.1                           | ND                                   | 8.99                  |
| 5/22                                                                                           | 105 (w)                    | ND             | ND           | ND           | <5.1                           | ND                                   | 9.98                  |
| MW-29                                                                                          |                            |                |              |              |                                |                                      |                       |
| 6/5                                                                                            | 10                         | ND             | ND           | ND           | <5.1                           | ND                                   | 110                   |
| 6/5                                                                                            | 20                         | ND             | ND           | ND           | <5.1                           | ND                                   | 11                    |
| 6/5                                                                                            | 30                         | ND             | ND           | ND           | <5.1                           | ND                                   | 25                    |
| 6/5                                                                                            | 40                         | ND             | ND           | ND           | <5.1                           | ND                                   | 25                    |
| 6/5                                                                                            | 50                         | ND             | ND           | ND           | <5.1                           | ND                                   | <5.0                  |
| 6/5                                                                                            | 60                         | ND             | ND           | ND           | <5.1                           | ND                                   | 5.8                   |
| 6/5                                                                                            | 70                         | ND             | ND           | ND           | <5.1                           | ND                                   | 5.3                   |
| 6/5                                                                                            | 80                         | ND             | ND           | ND           | <5.1                           | ND                                   | <5.0                  |
| 6/5                                                                                            | 90                         | ND             | ND           | ND           | <5.1                           | ND                                   | <4.9                  |
| 6/5                                                                                            | 100                        | ND             | ND           | ND           | <5.1                           | ND                                   | <5.0                  |
| 6/5                                                                                            | 105 (w)                    | ND             | ND           | ND           | <5.1                           | ND                                   | 26                    |
| 1 - Sum of GRO+DRO+MRO using EBA method 8015M                                                  |                            |                |              |              |                                |                                      |                       |
| 2 - Reporting limit for total xylenes is 0.0030 mg/L. No benzene was found in any soil sample. |                            |                |              |              |                                |                                      |                       |
| E-Ethylbenzene, T-Toluene, X-Total xylenes                                                     |                            |                |              |              |                                |                                      |                       |
| 3 - Sample results likely due to laboratory artifact during construction; retests ND           |                            |                |              |              |                                |                                      |                       |
| ND - Not detected at the reporting limit shown                                                 |                            |                |              |              |                                |                                      |                       |
| w - Sample taken from water saturated core                                                     |                            |                |              |              |                                |                                      |                       |

**Table 2. Soil Boring Results, Crude Manifold Area, Navajo Refining  
Company, Lea Refinery, Lovington, NM.**

Table 2. Soil Boring results, Crude Manifold Area

| Boring ID                                                                                      | Boring Depth<br>(feet) | Concentration Units: mg/Kg |                 |                 |                                   |                                         |          |
|------------------------------------------------------------------------------------------------|------------------------|----------------------------|-----------------|-----------------|-----------------------------------|-----------------------------------------|----------|
|                                                                                                |                        | GRO<br>(RL 0.050)          | DRO<br>(RL 1.7) | MRO<br>(RL 3.4) | TPH<br>concentration <sup>1</sup> | Total BTEX <sup>2</sup><br>(RL <0.0010) | Chloride |
| CSB-1                                                                                          |                        |                            |                 |                 |                                   |                                         |          |
| 6/2                                                                                            | 1-2                    | ND                         | 6.7             | 27              | 34                                | ND                                      | 208      |
| 6/2                                                                                            | 10                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 38.0     |
| 6/2                                                                                            | 20                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 11.5     |
| 6/2                                                                                            | 30                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 11.1     |
| 6/2                                                                                            | 40                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 12.2     |
| 6/2                                                                                            | 50                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 15.8     |
| 6/2                                                                                            | 60                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 15.0     |
| 6/2                                                                                            | 70                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 14.7     |
| 6/2                                                                                            | 80                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 19.0     |
| 6/2                                                                                            | 90                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 7.18     |
| 6/2                                                                                            | 100                    | ND                         | ND              | ND              | <5.1                              | ND                                      | 6.63     |
|                                                                                                | 110 (w)                | ND                         | ND              | ND              | <5.1                              | ND                                      | 14.6     |
| CSB-2                                                                                          |                        |                            |                 |                 |                                   |                                         |          |
| 6/3                                                                                            | 10                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 6.14     |
| 6/3                                                                                            | 20                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 7.19     |
| 6/3                                                                                            | 30                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 6.28     |
| 6/3                                                                                            | 40                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 8.42     |
| 6/3                                                                                            | 50                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 6.83     |
| 6/3                                                                                            | 60                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 6.99     |
| 6/3                                                                                            | 70                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 6.85     |
| 6/3                                                                                            | 80                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 15.1     |
| 6/3                                                                                            | 90                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 12.7     |
| 6/3                                                                                            | 100                    | ND                         | ND              | ND              | <5.1                              | ND                                      | 7.52     |
| 6/3                                                                                            | 110 (w)                | ND                         | ND              | ND              | <5.1                              | ND                                      | 22.1     |
| CSB-3                                                                                          |                        |                            |                 |                 |                                   |                                         |          |
| 6/3                                                                                            | 10                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 7.12     |
| 6/3                                                                                            | 20                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 5.65     |
| 6/3                                                                                            | 30                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 7.14     |
| 6/3                                                                                            | 40                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 10.4     |
| 6/3                                                                                            | 50                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 7.68     |
| 6/3                                                                                            | 60                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 8.61     |
| 6/3                                                                                            | 70                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 8.12     |
| 6/3                                                                                            | 80                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 8.34     |
| 6/3                                                                                            | 90                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 7.83     |
| 6/3                                                                                            | 100                    | ND                         | ND              | ND              | <5.1                              | ND                                      | 6.14     |
| 6/3                                                                                            | 110 (w)                | ND                         | ND              | ND              | <5.1                              | ND                                      | 26.5     |
| CSB-4                                                                                          |                        |                            |                 |                 |                                   |                                         |          |
| 6/4                                                                                            | 5                      | 0.36                       | 84              | 98              | 182                               | 0.0120 (E,X)                            | 163      |
| 6/4                                                                                            | 10                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 523      |
| 6/4                                                                                            | 20                     | ND                         | 240             | 320             | 560                               | ND                                      | 1,880    |
| 6/4                                                                                            | 30                     | ND                         | 19              | 32              | 51                                | ND                                      | 1,660    |
| 6/4                                                                                            | 40                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 2,190    |
| 6/4                                                                                            | 50                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 1,300    |
| 6/4                                                                                            | 60                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 1,130    |
| 6/4                                                                                            | 70                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 986      |
| 6/4                                                                                            | 80                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 222      |
| 6/4                                                                                            | 90                     | ND                         | ND              | ND              | <5.1                              | ND                                      | 8.43     |
| 6/4                                                                                            | 100                    | ND                         | ND              | ND              | <5.1                              | ND                                      | 5.93     |
| 6/4                                                                                            | 110 (w)                | ND                         | ND              | ND              | <5.1                              | ND                                      | 84.1     |
| 1 - Sum of GRO+DRO+MRO using EBA method 8015M                                                  |                        |                            |                 |                 |                                   |                                         |          |
| 2 - Reporting limit for total xylenes is 0.0030 mg/L. No benzene was found in any soil sample. |                        |                            |                 |                 |                                   |                                         |          |
| E-Ethylbenzene, T-Toluene, X-Total xylenes                                                     |                        |                            |                 |                 |                                   |                                         |          |
| ND - Not detected at the reporting limit shown                                                 |                        |                            |                 |                 |                                   |                                         |          |
| w - Sample taken from water saturated core                                                     |                        |                            |                 |                 |                                   |                                         |          |



**Table 3. Soil Boring Results, Wastewater Separator Area,  
Navajo Refining Company, Lea Refinery, Lovington, NM.**

Table 3. Soil Boring results, Wastewater Separator Area

|           | Concentration Units: mg/Kg |                   |                 |                 |                                   |                                         |          |
|-----------|----------------------------|-------------------|-----------------|-----------------|-----------------------------------|-----------------------------------------|----------|
| Boring ID | Boring Depth<br>(feet)     | GRO<br>(RL 0.050) | DRO<br>(RL 1.7) | MRO<br>(RL 3.4) | TPH<br>concentration <sup>1</sup> | Total BTEX <sup>2</sup><br>(RL <0.0010) | Chloride |
| WSB-1     |                            |                   |                 |                 |                                   |                                         |          |
| 6/8       | 10                         | ND                | ND              | ND              | <5.1                              | ND                                      | 34.3     |
| 6/8       | 20                         | ND                | ND              | ND              | <5.1                              | ND                                      | 59.2     |
| 6/8       | 30                         | ND                | ND              | ND              | <5.1                              | ND                                      | 7.82     |
| 6/8       | 40                         | ND                | ND              | ND              | <5.1                              | ND                                      | 37.0     |
| 6/8       | 50                         | ND                | ND              | ND              | <5.1                              | ND                                      | 25.4     |
| 6/8       | 60                         | ND                | ND              | ND              | <5.1                              | ND                                      | 6.70     |
| 6/8       | 70                         | ND                | ND              | ND              | <5.1                              | ND                                      | <5.00    |
| 6/8       | 80                         | ND                | ND              | ND              | <5.1                              | ND                                      | 8.56     |
| 6/8       | 90                         | ND                | ND              | ND              | <5.1                              | ND                                      | <4.96    |
| 6/8       | 100                        | ND                | ND              | ND              | <5.1                              | ND                                      | 5.74     |
| 6/8       | 110 (w)                    | ND                | ND              | ND              | <5.1                              | ND                                      | 33.7     |
|           |                            |                   |                 |                 |                                   |                                         |          |
| WSB-2     |                            |                   |                 |                 |                                   |                                         |          |
| 6/9       | 10                         | ND                | ND              | ND              | <5.1                              | ND                                      | 6.21     |
| 6/9       | 20                         | ND                | 2.2             | ND              | 2.2                               | ND                                      | 9.37     |
| 6/9       | 30                         | 1.5               | 210             | 110             | 322                               | 0.0130 (E,X)                            | 14.0     |
| 6/9       | 40 (TD)                    | 4.0               | 810             | 260             | 1,074                             | 0.1477 (T,E,X)                          | 15.7     |
|           |                            |                   |                 |                 |                                   |                                         |          |
| WSB-3     |                            |                   |                 |                 |                                   |                                         |          |
| 6/9       | 10                         | ND                | ND              | ND              | <5.1                              | ND                                      | <4.98    |
| 6/9       | 20                         | ND                | ND              | ND              | <5.1                              | ND                                      | <4.97    |
| 6/9       | 30                         | ND                | ND              | ND              | <5.1                              | ND                                      | <4.95    |
| 6/9       | 40                         | ND                | ND              | 4.2             | 4.2                               | ND                                      | <4.96    |
| 6/9       | 50                         | ND                | ND              | ND              | <5.1                              | ND                                      | 6.57     |
| 6/9       | 60                         | ND                | ND              | ND              | <5.1                              | ND                                      | 10.9     |
| 6/9       | 70                         | ND                | ND              | ND              | <5.1                              | ND                                      | 11.9     |
| 6/9       | 80                         | ND                | ND              | ND              | <5.1                              | ND                                      | 12.2     |
| 6/9       | 90                         | ND                | ND              | ND              | <5.1                              | ND                                      | 43.8     |
| 6/9       | 100                        | ND                | ND              | ND              | <5.1                              | ND                                      | 40.0     |
| 6/9       | 110 (w)                    | ND                | ND              | ND              | <5.1                              | ND                                      | 13.7     |
|           |                            |                   |                 |                 |                                   |                                         |          |
| WSB-4     |                            |                   |                 |                 |                                   |                                         |          |
| 6/9       | 10                         | ND                | ND              | ND              | <5.1                              | ND                                      | <5.00    |
| 6/9       | 20                         | 270               | 1,600           | 690             | 2,560                             | 17.8 (E,X)                              | 5.66     |
| 6/10      | 30                         | 300               | 1,000           | 400             | 1,700                             | 51.6 (T,E,X)                            | 7.53     |
| 6/10      | 40                         | 470               | 2,700           | 800             | 3,970                             | 30.4 (T,E,X)                            | 14.0     |
| 6/10      | 50                         | 340               | 2,600           | 810             | 3,750                             | 53.0 (T,E,X)                            | 22.6     |
| 6/10      | 60                         | 250               | 3,300           | 1,200           | 4,750                             | 16.3 (T,E,X)                            | 23.2     |
| 6/10      | 70                         | 67                | 2,800           | 1,200           | 4,067                             | 3.2 (E,X)                               | 16.5     |
| 6/10      | 80                         | 150               | 3,500           | 1,100           | 4,750                             | 8.85 (T,E,X)                            | 27.2     |
| 6/10      | 90                         | 5.1               | 380             | 210             | 595                               | 0.017 (E,X)                             | 11.6     |
| 6/10      | 100                        | ND                | 24              | 23              | 47                                | ND                                      | 5.71     |
| 6/10      | 110 (w)                    | ND                | 2.3             | ND              | 2.3                               | ND                                      | 9.61     |
|           |                            |                   |                 |                 |                                   |                                         |          |

Table 3. Soil Boring results, Wastewater Separator Area

|           | Concentration Units: mg/Kg |                   |                 |                 |                                   |                                         |          |
|-----------|----------------------------|-------------------|-----------------|-----------------|-----------------------------------|-----------------------------------------|----------|
| Boring ID | Boring Depth<br>(feet)     | GRO<br>(RL 0.050) | DRO<br>(RL 1.7) | MRO<br>(RL 3.4) | TPH<br>concentration <sup>1</sup> | Total BTEX <sup>2</sup><br>(RL <0.0010) | Chloride |
| WSB-5     |                            |                   |                 |                 |                                   |                                         |          |
| 6/9       | 10                         | 5.3               | 190             | 130             | 325                               | 0.035 (T,X)                             | 14.6     |
| 6/9       | 20                         | 140               | 480             | 130             | 750                               | 19.8 (T,E,X)                            | 27.0     |
| 6/11      | 30                         | 110               | 2,100           | 810             | 3,020                             | 11.95 (T,E,X)                           | 7.73     |
| 6/11      | 40                         | 400               | 5,100           | 1,800           | 7,300                             | 100.3 (T,E,X)                           | 17.2     |
| 6/11      | 50                         | 610               | 4,800           | 2,000           | 7,410                             | 37.4 (T,E,X)                            | 23.7     |
| 6/11      | 60                         | 0.62              | 430             | 200             | 631                               | 0.0087(E,X)                             | 15.2     |
| 6/11      | 70                         | ND                | 5.0             | ND              | 5.0                               | ND                                      | 17.2     |
| 6/11      | 80                         | ND                | 69              | 35              | 104                               | ND                                      | 17.5     |
| 6/11      | 90                         | 20                | 210             | 110             | 340                               | 0.32 (E,X)                              | 26.4     |
| 6/11      | 100                        | ND                | 93              | 52              | 145                               | ND                                      | 14.1     |
| 6/11      | 110 (w)                    | ND                | ND              | ND              | <5.1                              | ND                                      | <4.96    |
| WSB-6     |                            |                   |                 |                 |                                   |                                         |          |
| 6/10      | 10                         | ND                | ND              | ND              | <5.1                              | ND                                      | 67.3     |
| 6/10      | 20                         | ND                | ND              | ND              | <5.1                              | ND                                      | 65.8     |
| 6/10      | 30                         | ND                | ND              | ND              | <5.1                              | ND                                      | 19.1     |
| 6/10      | 40                         | ND                | ND              | ND              | <5.1                              | ND                                      | 42.0     |
| 6/10      | 50                         | ND                | ND              | ND              | <5.1                              | ND                                      | 47.9     |
| 6/10      | 60                         | ND                | ND              | ND              | <5.1                              | ND                                      | 58.0     |
| 6/10      | 70                         | ND                | ND              | ND              | <5.1                              | ND                                      | 50.7     |
| 6/10      | 80                         | ND                | ND              | ND              | <5.1                              | ND                                      | 55.2     |
| 6/10      | 90                         | ND                | ND              | ND              | <5.1                              | ND                                      | 39.2     |
| 6/10      | 100                        | ND                | ND              | ND              | <5.1                              | ND                                      | 35.7     |
| 6/10      | 110 (w)                    | ND                | ND              | ND              | <5.1                              | ND                                      | 26.6     |
| WSB-7     |                            |                   |                 |                 |                                   |                                         |          |
| 6/11      | 10                         | ND                | ND              | ND              | <5.1                              | ND                                      | 12.5     |
| 6/11      | 20                         | ND                | ND              | ND              | <5.1                              | ND                                      | 20.3     |
| 6/11      | 30                         | ND                | ND              | ND              | <5.1                              | ND                                      | 14.0     |
| 6/11      | 40                         | ND                | 5.6             | 15              | 20.6                              | ND                                      | 21.8     |
| 6/11      | 50                         | ND                | 3.3             | 10              | 13.3                              | ND                                      | 21.1     |
| 6/11      | 60                         | ND                | 4.2             | 11              | 15.2                              | ND                                      | 22.2     |
| 6/11      | 70                         | ND                | ND              | 3.8             | 3.8                               | ND                                      | 25.2     |
| 6/11      | 80                         | ND                | 7.3             | 12              | 19.3                              | ND                                      | 27.3     |
| 6/11      | 90                         | ND                | 64              | 76              | 140                               | ND                                      | 30.9     |
| 6/11      | 100                        | ND                | 3.8             | 7.3             | 11.1                              | ND                                      | 28.1     |
| 6/11      | 110 (w)                    | ND                | 6.4             | 8.9             | 15.3                              | ND                                      | 17.5     |
| WSB-8     |                            |                   |                 |                 |                                   |                                         |          |
| 6/26      | 10                         | ND                | ND              | ND              | <5.1                              | ND                                      | 5.32     |
| 6/26      | 20                         | ND                | 2.2             | ND              | 2.2                               | ND                                      | 35.2     |
| 6/26      | 30                         | 43                | 950             | 370             | 1,363                             | 4.0 (E,X)                               | 14.7     |
| 6/26      | 40                         | 19                | 860             | <340            | 879                               | 2.17 (T,E,X)                            | 62.2     |
| 6/26      | 50                         | ND                | ND              | ND              | <5.1                              | ND                                      | 49.4     |
| 6/26      | 60                         | ND                | 2.2             | ND              | 2.2                               | ND                                      | 22.9     |
| 6/26      | 70                         | ND                | ND              | ND              | <5.1                              | ND                                      | 55.0     |
| 6/26      | 80                         | ND                | ND              | ND              | <5.1                              | ND                                      | 69.1     |
| 6/26      | 90                         | 1.1               | 350             | <85             | 351                               | 0.0214 (T,E,X)                          | 16.4     |
| 6/26      | 100                        | 0.075             | 8.1             | ND              | 8.2                               | ND                                      | 10.0     |
| 6/26      | 110 (w)                    | ND                | ND              | ND              | <5.1                              | ND                                      | 33.4     |

Table 3. Soil Boring results, Wastewater Separator Area

|                                                                                                | Concentration Units: mg/Kg |                   |                 |                 |                                   |                                         |          |
|------------------------------------------------------------------------------------------------|----------------------------|-------------------|-----------------|-----------------|-----------------------------------|-----------------------------------------|----------|
| Boring ID                                                                                      | Boring Depth<br>(feet)     | GRO<br>(RL 0.050) | DRO<br>(RL 1.7) | MRO<br>(RL 3.4) | TPH<br>concentration <sup>1</sup> | Total BTEX <sup>2</sup><br>(RL <0.0010) | Chloride |
| WSB-9                                                                                          |                            |                   |                 |                 |                                   |                                         |          |
| 6/26                                                                                           | 10                         | ND                | ND              | ND              | <5.1                              | ND                                      | <4.99    |
| 6/26                                                                                           | 20                         | ND                | ND              | ND              | <5.1                              | ND                                      | 71.2     |
| 6/26                                                                                           | 30                         | ND                | ND              | ND              | <5.1                              | ND                                      | <4.75    |
| 6/26                                                                                           | 40                         | ND                | ND              | ND              | <5.1                              | ND                                      | 71.2     |
| 6/26                                                                                           | 50                         | ND                | ND              | ND              | <5.1                              | ND                                      | 15.4     |
| 6/26                                                                                           | 60                         | ND                | ND              | ND              | <5.1                              | ND                                      | 69.1     |
| 6/26                                                                                           | 70                         | ND                | ND              | 3.6             | 3.6                               | ND                                      | 99.3     |
| 6/26                                                                                           | 80                         | ND                | ND              | ND              | <5.1                              | ND                                      | 9.84     |
| 6/26                                                                                           | 90                         | ND                | ND              | ND              | <5.1                              | ND                                      | 9.56     |
| 6/26                                                                                           | 100                        | ND                | ND              | ND              | <5.1                              | ND                                      | <4.95    |
| 6/26                                                                                           | 110 (w)                    | ND                | ND              | ND              | <5.1                              | ND                                      | 29.2     |
| WSB-10                                                                                         |                            |                   |                 |                 |                                   |                                         |          |
| 6/28                                                                                           | 10                         | ND                | ND              | ND              | <5.1                              | ND                                      | 20.3     |
| 6/28                                                                                           | 20                         | ND                | 2.9             | ND              | 2.9                               | ND                                      | 43.4     |
| 6/28                                                                                           | 30                         | ND                | ND              | ND              | <5.1                              | ND                                      | 34.0     |
| 6/28                                                                                           | 40                         | ND                | 2.2             | ND              | 2.2                               | ND                                      | 116      |
| 6/28                                                                                           | 50                         | ND                | 2.4             | ND              | 2.4                               | ND                                      | 47.7     |
| 6/28                                                                                           | 60                         | ND                | ND              | ND              | <5.1                              | ND                                      | 78.1     |
| 6/28                                                                                           | 70                         | ND                | ND              | ND              | <5.1                              | ND                                      | 58.2     |
| 6/28                                                                                           | 80                         | ND                | ND              | ND              | <5.1                              | ND                                      | 61.0     |
| 6/28                                                                                           | 90                         | ND                | ND              | ND              | <5.1                              | ND                                      | 57.5     |
| 6/28                                                                                           | 100                        | ND                | ND              | ND              | <5.1                              | ND                                      | 77.4     |
| 6/28                                                                                           | 110 (w)                    | ND                | ND              | ND              | <5.1                              | ND                                      | <5.00    |
| WSB-11                                                                                         |                            |                   |                 |                 |                                   |                                         |          |
| 6/28                                                                                           | 10                         | ND                | ND              | ND              | <5.1                              | ND                                      | 20.5     |
| 6/28                                                                                           | 20                         | ND                | ND              | ND              | <5.1                              | ND                                      | 12.7     |
| 6/28                                                                                           | 30                         | ND                | ND              | ND              | <5.1                              | ND                                      | 17.2     |
| 6/28                                                                                           | 40                         | ND                | ND              | ND              | <5.1                              | ND                                      | 30.1     |
| 6/28                                                                                           | 50                         | ND                | ND              | ND              | <5.1                              | ND                                      | 46.6     |
| 6/28                                                                                           | 60                         | ND                | 6.3             | ND              | 6.3                               | ND                                      | 30.7     |
| 6/28                                                                                           | 70                         | ND                | 8.7             | ND              | 8.7                               | ND                                      | 34.6     |
| 6/28                                                                                           | 80                         | ND                | 3.8             | ND              | 3.8                               | ND                                      | 38.6     |
| 6/28                                                                                           | 90                         | 0.68              | 15              | ND              | 16.1                              | 0.043 (E,X)                             | 22.0     |
| 6/28                                                                                           | 100                        | ND                | 3.8             | ND              | 3.8                               | 0.030 (E,X)                             | 16.9     |
| 6/28                                                                                           | 110 (w)                    | ND                | ND              | ND              | <5.1                              | ND                                      | 5.20     |
| 1 - Sum of GRO+DRO+MRO using EPA method 8015M                                                  |                            |                   |                 |                 |                                   |                                         |          |
| 2 - No benzene was found in any soil sample. Reporting limit for total xylenes is 0.0030 mg/L. |                            |                   |                 |                 |                                   |                                         |          |
| w - sample taken from water saturated core                                                     |                            |                   |                 |                 |                                   |                                         |          |

**Table 4. Water Level Summary, Navajo Refining Company,  
Lea Refinery, Lovington, NM.**

Table 4. Water Level Summary, Navajo Refining Company, Lovington Refinery

| Monitor Well,<br>Depth Below TOC<br>(feet)  | Elevation<br>Top of<br>Casing<br>(TOC, feet) | Measure-<br>ment Date | Depth to<br>Product<br>(feet) | Depth to<br>Water<br>Below TOC<br>(feet) | Corrected<br>Depth to<br>Water (feet) | Corrected<br>Water Level<br>Elev. (feet) | Change from<br>previous<br>reading (ft) |
|---------------------------------------------|----------------------------------------------|-----------------------|-------------------------------|------------------------------------------|---------------------------------------|------------------------------------------|-----------------------------------------|
| <b>MW-1</b>                                 | 3,838.40                                     | 04/30/09              | --                            | 106.35                                   | 106.35                                | 3,732.05                                 | --                                      |
| 129.16                                      |                                              | 06/10/09              | --                            | 106.49                                   | 106.49                                | 3,731.91                                 | -0.14                                   |
|                                             |                                              | 06/19/09              | --                            | 106.57                                   | 106.57                                | 3,731.83                                 | -0.08                                   |
|                                             |                                              | 07/02/09              | --                            | 106.74                                   | 106.74                                | 3,731.66                                 | -0.17                                   |
|                                             |                                              | 07/24/09              | --                            | 106.83                                   | 106.83                                | 3,731.57                                 | -0.09                                   |
|                                             |                                              | 09/24/09              | --                            | 107.31                                   | 107.31                                | 3,731.09                                 | -0.48                                   |
|                                             |                                              | 10/27/09              | --                            | 107.44                                   | 107.44                                | 3,730.96                                 | -0.13                                   |
|                                             |                                              | 01/13/10              | --                            | 107.57                                   | 107.57                                | 3,730.83                                 | -0.13                                   |
|                                             |                                              | 04/01/10              | --                            | 107.51                                   | 107.51                                | 3,730.89                                 | 0.06                                    |
|                                             |                                              | 08/11/10              | --                            | 108.09                                   | 108.09                                | 3,730.31                                 | -0.58                                   |
| Note: Replacement well, drilled April 2009. |                                              |                       |                               |                                          |                                       |                                          |                                         |
| <b>MW-2</b>                                 | 3,837.35                                     | 06/22/09              | --                            | 104.32                                   | 104.32                                | 3,733.03                                 | --                                      |
| 126.42                                      |                                              | 01/13/10              | --                            | 105.44                                   | 105.44                                | 3,731.91                                 | -1.12                                   |
|                                             |                                              | 08/11/10              | --                            | 105.97                                   | 105.97                                | 3,731.38                                 | -0.53                                   |
| Note: Replacement well, drilled April 2009. |                                              |                       |                               |                                          |                                       |                                          |                                         |
| <b>MW-3</b>                                 | 3,831.65                                     | 06/18/09              | --                            | 102.65                                   | 102.65                                | 3,729.00                                 | --                                      |
| 130.42                                      |                                              | 01/13/10              | --                            | 103.29                                   | 103.29                                | 3,728.36                                 | -0.64                                   |
|                                             |                                              | 08/11/10              | --                            | 104.82                                   | 104.82                                | 3,726.83                                 | -1.53                                   |
| Note: Replacement well, drilled April 2009. |                                              |                       |                               |                                          |                                       |                                          |                                         |
| <b>MW-4</b>                                 | 3,839.89                                     | 06/16/09              | --                            | 106.79                                   | 106.79                                | 3,733.10                                 | --                                      |
| 128.03                                      |                                              | 01/13/10              | --                            | 107.72                                   | 107.72                                | 3,732.17                                 | -0.93                                   |
|                                             |                                              | 08/11/10              | --                            | 108.19                                   | 108.19                                | 3,731.70                                 | -0.47                                   |
| Note: Replacement well, drilled April 2009. |                                              |                       |                               |                                          |                                       |                                          |                                         |
| <b>MW-5</b>                                 | 3,819.15                                     | 06/16/09              | --                            | 90.84                                    | 90.84                                 | 3,728.31                                 | --                                      |
| 117.93                                      |                                              | 01/13/10              | --                            | 92.02                                    | 92.02                                 | 3,727.13                                 | -1.18                                   |
|                                             |                                              | 08/11/10              | --                            | 92.67                                    | 92.67                                 | 3,726.48                                 | -0.65                                   |
| Note: Replacement well, drilled April 2009. |                                              |                       |                               |                                          |                                       |                                          |                                         |
| <b>MW-6</b>                                 | 3,838.16                                     | 06/18/09              | --                            | 106.64                                   | 106.64                                | 3,731.52                                 | --                                      |
| 129.71                                      |                                              | 07/24/09              | --                            | 106.92                                   | 106.92                                | 3,731.24                                 | -0.28                                   |
|                                             |                                              | 09/24/09              | --                            | 107.44                                   | 107.44                                | 3,730.72                                 | -0.52                                   |
|                                             |                                              | 10/27/09              | --                            | 107.55                                   | 107.55                                | 3,730.61                                 | -0.11                                   |
|                                             |                                              | 01/13/10              | --                            | 107.64                                   | 107.64                                | 3,730.52                                 | -0.09                                   |
|                                             |                                              | 02/02/10              | --                            | 107.69                                   | 107.69                                | 3,730.47                                 | -0.05                                   |
|                                             |                                              | 04/01/10              | --                            | 107.65                                   | 107.65                                | 3,730.51                                 | 0.04                                    |
|                                             |                                              | 08/11/10              | --                            | 108.00                                   | 108.00                                | 3,730.16                                 | -0.35                                   |
| Note: Replacement well, drilled April 2009. |                                              |                       |                               |                                          |                                       |                                          |                                         |

Table 4. Water Level Summary, Navajo Refining Company, Lovington Refinery

| Monitor Well,<br>Depth Below TOC<br>(feet)  | Elevation<br>Top of<br>Casing<br>(TOC, feet) | Measure-<br>ment Date | Depth to<br>Product<br>(feet) | Depth to<br>Water<br>Below TOC<br>(feet) | Corrected<br>Depth to<br>Water (feet) | Corrected<br>Water Level<br>Elev. (feet) | Change from<br>previous<br>reading (ft) |
|---------------------------------------------|----------------------------------------------|-----------------------|-------------------------------|------------------------------------------|---------------------------------------|------------------------------------------|-----------------------------------------|
| <b>MW-7</b>                                 | 3,838.42                                     | 04/30/09              | --                            | 106.37                                   | 106.37                                | 3,732.05                                 | --                                      |
| 129.57                                      |                                              | 06/10/09              | --                            | 106.48                                   | 106.48                                | 3,731.94                                 | -0.11                                   |
|                                             |                                              | 06/19/09              | --                            | 106.68                                   | 106.68                                | 3,731.74                                 | -0.20                                   |
|                                             |                                              | 07/02/09              | --                            | 106.75                                   | 106.75                                | 3,731.67                                 | -0.07                                   |
|                                             |                                              | 07/24/09              | --                            | 106.84                                   | 106.84                                | 3,731.58                                 | -0.09                                   |
|                                             |                                              | 09/24/09              | --                            | 107.33                                   | 107.33                                | 3,731.09                                 | -0.49                                   |
|                                             |                                              | 10/27/09              | --                            | 107.46                                   | 107.46                                | 3,730.96                                 | -0.13                                   |
|                                             |                                              | 01/13/10              | --                            | 107.60                                   | 107.60                                | 3,730.82                                 | -0.14                                   |
|                                             |                                              | 02/02/10              | --                            | 107.61                                   | 107.61                                | 3,730.81                                 | -0.01                                   |
|                                             |                                              | 04/01/10              | --                            | 107.52                                   | 107.52                                | 3,730.90                                 | 0.09                                    |
|                                             |                                              | 08/11/10              | --                            | 108.10                                   | 108.10                                | 3,730.32                                 | -0.58                                   |
| Note: Replacement well, drilled April 2009. |                                              |                       |                               |                                          |                                       |                                          |                                         |
| <b>MW-8</b>                                 | 3,839.98                                     | 06/18/09              | --                            | 109.37                                   | 109.37                                | 3,730.61                                 | --                                      |
| 132.34                                      |                                              | 01/13/10              | --                            | 110.47                                   | 110.47                                | 3,729.51                                 | -1.10                                   |
|                                             |                                              | 08/11/10              | --                            | 111.05                                   | 111.05                                | 3,728.93                                 | -0.58                                   |
| Note: Replacement well, drilled April 2009. |                                              |                       |                               |                                          |                                       |                                          |                                         |
| <b>MW-9</b>                                 | 3,835.22                                     | 06/16/09              | --                            | 104.58                                   | 104.58                                | 3,730.64                                 | --                                      |
| 129.21                                      |                                              | 01/13/10              | --                            | 105.61                                   | 105.61                                | 3,729.61                                 | -1.03                                   |
|                                             |                                              | 08/11/10              | --                            | 106.37                                   | 106.37                                | 3,728.85                                 | -0.76                                   |
| Note: Replacement well, drilled April 2009. |                                              |                       |                               |                                          |                                       |                                          |                                         |
| <b>MW-10</b>                                | 3,833.66                                     | 06/18/09              | --                            | 102.57                                   | 102.57                                | 3,731.09                                 | --                                      |
| 128.47                                      |                                              | 01/13/10              | --                            | 103.51                                   | 103.51                                | 3,730.15                                 | -0.94                                   |
|                                             |                                              | 08/11/10              | --                            | 104.31                                   | 104.31                                | 3,729.35                                 | -0.80                                   |
| Note: Replacement well, drilled April 2009. |                                              |                       |                               |                                          |                                       |                                          |                                         |
| <b>MW-11</b>                                | 3,839.56                                     | 06/20/02              | --                            | 99.93                                    | 99.93                                 | 3,739.63                                 | --                                      |
| 117.50                                      |                                              | 09/17/02              | --                            | 100.63                                   | 100.63                                | 3,738.93                                 | -0.70                                   |
|                                             |                                              | 12/19/02              | --                            | 100.50                                   | 100.50                                | 3,739.06                                 | 0.13                                    |
|                                             |                                              | 03/28/03              | --                            | 99.74                                    | 99.74                                 | 3,739.82                                 | 0.76                                    |
|                                             |                                              | 06/20/03              | --                            | 100.76                                   | 100.76                                | 3,738.80                                 | -1.02                                   |
|                                             |                                              | 09/15/03              | --                            | 101.51                                   | 101.51                                | 3,738.05                                 | -0.75                                   |
|                                             |                                              | 04/30/04              | --                            | 102.31                                   | 102.31                                | 3,737.25                                 | -0.80                                   |
|                                             |                                              | 02/21/05              | --                            | 103.80                                   | 103.80                                | 3,735.76                                 | -1.49                                   |
|                                             |                                              | 06/28/05              | --                            | 104.33                                   | 104.33                                | 3,735.23                                 | -0.53                                   |
|                                             |                                              | 09/30/05              | --                            | 104.60                                   | 104.60                                | 3,734.96                                 | -0.27                                   |
|                                             |                                              | 12/29/05              | --                            | 104.81                                   | 104.81                                | 3,734.75                                 | -0.21                                   |
|                                             |                                              | 04/10/06              | --                            | 105.12                                   | 105.12                                | 3,734.44                                 | -0.31                                   |
|                                             |                                              | 07/06/06              | --                            | 105.61                                   | 105.61                                | 3,733.95                                 | -0.49                                   |
|                                             |                                              | 01/26/07              | --                            | 106.63                                   | 106.63                                | 3,732.93                                 | -1.02                                   |
|                                             |                                              | 03/27/07              | --                            | 106.80                                   | 106.80                                | 3,732.76                                 | -0.17                                   |
|                                             |                                              | 07/13/07              | --                            | 106.94                                   | 106.94                                | 3,732.62                                 | -0.14                                   |
|                                             |                                              | 09/12/07              | --                            | 107.22                                   | 107.22                                | 3,732.34                                 | -0.28                                   |
|                                             |                                              | 12/31/07              | --                            | 106.74                                   | 106.74                                | 3,732.82                                 | 0.48                                    |
|                                             |                                              | 03/26/08              | --                            | 106.81                                   | 106.81                                | 3,732.75                                 | -0.07                                   |

Table 4. Water Level Summary, Navajo Refining Company, Lovington Refinery

| Monitor Well,<br>Depth Below TOC<br>(feet) | Elevation<br>Top of<br>Casing<br>(TOC, feet) | Measure-<br>ment Date | Depth to<br>Product<br>(feet) | Depth to<br>Water<br>Below TOC<br>(feet) | Corrected<br>Depth to<br>Water (feet) | Corrected<br>Water Level<br>Elev. (feet) | Change from<br>previous<br>reading (ft) |
|--------------------------------------------|----------------------------------------------|-----------------------|-------------------------------|------------------------------------------|---------------------------------------|------------------------------------------|-----------------------------------------|
| MW-11                                      |                                              | 06/13/08              | --                            | 107.40                                   | 107.40                                | 3,732.16                                 | -0.59                                   |
|                                            |                                              | 09/24/08              | --                            | 108.76                                   | 108.76                                | 3,730.80                                 | -1.36                                   |
|                                            |                                              | 12/29/08              | --                            | 108.57                                   | 108.57                                | 3,730.99                                 | 0.19                                    |
|                                            |                                              | 03/17/09              | --                            | 107.91                                   | 107.91                                | 3,731.65                                 | 0.66                                    |
|                                            |                                              | 06/18/09              | --                            | 108.65                                   | 108.65                                | 3,730.91                                 | -0.74                                   |
|                                            |                                              | 01/13/10              | --                            | 109.81                                   | 109.81                                | 3,729.75                                 | -1.16                                   |
|                                            |                                              | 08/11/10              | --                            | 110.16                                   | 110.16                                | 3,729.40                                 | -0.35                                   |
|                                            |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-12                                      | 3,822.73                                     | 06/20/02              | --                            | 84.20                                    | 84.20                                 | 3,738.53                                 | --                                      |
| 100.56                                     |                                              | 12/21/02              | --                            | 85.21                                    | 85.21                                 | 3,737.52                                 | -1.01                                   |
|                                            |                                              | 03/28/03              | --                            | 85.35                                    | 85.35                                 | 3,737.38                                 | -0.14                                   |
|                                            |                                              | 06/20/03              | --                            | 85.51                                    | 85.51                                 | 3,737.22                                 | -0.16                                   |
|                                            |                                              | 09/15/03              | --                            | 86.13                                    | 86.13                                 | 3,736.60                                 | -0.62                                   |
|                                            |                                              | 11/02/03              | --                            | 86.57                                    | 86.57                                 | 3,736.16                                 | -0.44                                   |
|                                            |                                              | 04/30/04              | --                            | 87.40                                    | 87.40                                 | 3,735.33                                 | -0.83                                   |
|                                            |                                              | 02/21/05              | --                            | 88.42                                    | 88.42                                 | 3,734.31                                 | -1.02                                   |
|                                            |                                              | 06/28/05              | --                            | 88.76                                    | 88.76                                 | 3,733.97                                 | -0.34                                   |
|                                            |                                              | 09/30/05              | --                            | 89.12                                    | 89.12                                 | 3,733.61                                 | -0.36                                   |
|                                            |                                              | 12/29/05              | --                            | 89.31                                    | 89.31                                 | 3,733.42                                 | -0.19                                   |
|                                            |                                              | 04/10/06              | --                            | 89.55                                    | 89.55                                 | 3,733.18                                 | -0.24                                   |
|                                            |                                              | 07/06/06              | --                            | 90.03                                    | 90.03                                 | 3,732.70                                 | -0.48                                   |
|                                            |                                              | 01/26/07              | --                            | 90.06                                    | 90.06                                 | 3,732.67                                 | -0.03                                   |
|                                            |                                              | 03/27/07              | --                            | 90.10                                    | 90.10                                 | 3,732.63                                 | -0.04                                   |
|                                            |                                              | 07/13/07              | --                            | 91.66                                    | 91.66                                 | 3,731.07                                 | -1.56                                   |
|                                            |                                              | 09/12/07              | --                            | 92.01                                    | 92.01                                 | 3,730.72                                 | -0.35                                   |
|                                            |                                              | 12/31/07              | --                            | 92.17                                    | 92.17                                 | 3,730.56                                 | -0.16                                   |
|                                            |                                              | 03/26/08              | --                            | 92.39                                    | 92.39                                 | 3,730.34                                 | -0.22                                   |
|                                            |                                              | 06/13/08              | --                            | 92.59                                    | 92.59                                 | 3,730.14                                 | -0.20                                   |
|                                            |                                              | 09/24/08              | --                            | 93.21                                    | 93.21                                 | 3,729.52                                 | -0.62                                   |
|                                            |                                              | 12/29/08              | --                            | 93.59                                    | 93.59                                 | 3,729.14                                 | -0.38                                   |
|                                            |                                              | 03/17/09              | --                            | 93.75                                    | 93.75                                 | 3,728.98                                 | -0.16                                   |
|                                            |                                              | 06/16/09              | --                            | 93.83                                    | 93.83                                 | 3,728.90                                 | -0.08                                   |
|                                            |                                              | 01/13/10              | --                            | 94.78                                    | 94.78                                 | 3,727.95                                 | -0.95                                   |
|                                            |                                              | 08/11/10              | --                            | 95.67                                    | 95.67                                 | 3,727.06                                 | -0.89                                   |
|                                            |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-13                                      | 3,837.06                                     | 04/30/04              | --                            | 101.41                                   | 101.41                                | 3,735.65                                 | --                                      |
| 119.68                                     |                                              | 02/21/05              | --                            | 103.09                                   | 103.09                                | 3,733.97                                 | -1.68                                   |
|                                            |                                              | 06/28/05              | --                            | 103.48                                   | 103.48                                | 3,733.58                                 | -0.39                                   |
|                                            |                                              | 09/30/05              | --                            | 103.80                                   | 103.80                                | 3,733.26                                 | -0.32                                   |
|                                            |                                              | 12/29/05              | --                            | 104.41                                   | 104.41                                | 3,732.65                                 | -0.61                                   |
|                                            |                                              | 04/10/06              | --                            | 104.59                                   | 104.59                                | 3,732.47                                 | -0.18                                   |
|                                            |                                              | 07/06/06              | --                            | 104.94                                   | 104.94                                | 3,732.12                                 | -0.35                                   |
|                                            |                                              | 01/26/07              | --                            | 106.41                                   | 106.41                                | 3,730.65                                 | -1.47                                   |
|                                            |                                              | 03/27/07              | --                            | 106.47                                   | 106.47                                | 3,730.59                                 | -0.06                                   |
|                                            |                                              | 07/13/07              | --                            | 106.93                                   | 106.93                                | 3,730.13                                 | -0.46                                   |
|                                            |                                              | 09/12/07              | --                            | 107.19                                   | 107.19                                | 3,729.87                                 | -0.26                                   |
|                                            |                                              | 12/31/07              | --                            | 106.71                                   | 106.71                                | 3,730.35                                 | 0.48                                    |



Table 4. Water Level Summary, Navajo Refining Company, Lovington Refinery

| Monitor Well,<br>Depth Below TOC<br>(feet) | Elevation<br>Top of<br>Casing<br>(TOC, feet) | Measure-<br>ment Date | Depth to<br>Product<br>(feet) | Depth to<br>Water<br>Below TOC<br>(feet) | Corrected<br>Depth to<br>Water (feet) | Corrected<br>Water Level<br>Elev. (feet) | Change from<br>previous<br>reading (ft) |
|--------------------------------------------|----------------------------------------------|-----------------------|-------------------------------|------------------------------------------|---------------------------------------|------------------------------------------|-----------------------------------------|
| MW-13                                      |                                              | 03/26/08              | --                            | 107.02                                   | 107.02                                | 3,730.04                                 | -0.31                                   |
|                                            |                                              | 06/13/08              | --                            | 107.19                                   | 107.19                                | 3,729.87                                 | -0.17                                   |
|                                            |                                              | 09/24/08              | --                            | 108.56                                   | 108.56                                | 3,728.50                                 | -1.37                                   |
|                                            |                                              | 12/29/08              | --                            | 108.71                                   | 108.71                                | 3,728.35                                 | -0.15                                   |
|                                            |                                              | 03/17/09              | --                            | 108.36                                   | 108.36                                | 3,728.70                                 | 0.35                                    |
|                                            |                                              | 06/16/09              | --                            | 108.58                                   | 108.58                                | 3,728.48                                 | -0.22                                   |
|                                            |                                              | 01/13/10              | --                            | 109.68                                   | 109.68                                | 3,727.38                                 | -1.10                                   |
|                                            |                                              | 08/11/10              | --                            | 109.72                                   | 109.72                                | 3,727.34                                 | -0.04                                   |
| MW-14                                      | 3,823.03                                     | 04/30/04              | --                            | 87.46                                    | 87.46                                 | 3,735.57                                 | --                                      |
| 105.04                                     |                                              | 02/21/05              | --                            | 88.48                                    | 88.48                                 | 3,734.55                                 | -1.02                                   |
|                                            |                                              | 06/28/05              | --                            | 88.80                                    | 88.80                                 | 3,734.23                                 | -0.32                                   |
|                                            |                                              | 09/30/05              | --                            | 89.14                                    | 89.14                                 | 3,733.89                                 | -0.34                                   |
|                                            |                                              | 12/29/05              | --                            | 89.34                                    | 89.34                                 | 3,733.69                                 | -0.20                                   |
|                                            |                                              | 04/10/06              | --                            | 89.63                                    | 89.63                                 | 3,733.40                                 | -0.29                                   |
|                                            |                                              | 07/06/06              | --                            | 90.08                                    | 90.08                                 | 3,732.95                                 | -0.45                                   |
|                                            |                                              | 01/26/07              | --                            | 91.02                                    | 91.02                                 | 3,732.01                                 | -0.94                                   |
|                                            |                                              | 03/27/07              | --                            | 91.18                                    | 91.18                                 | 3,731.85                                 | -0.16                                   |
|                                            |                                              | 07/13/07              | --                            | 91.68                                    | 91.68                                 | 3,731.35                                 | -0.50                                   |
|                                            |                                              | 09/12/07              | --                            | 92.02                                    | 92.02                                 | 3,731.01                                 | -0.34                                   |
|                                            |                                              | 12/31/07              | --                            | 92.25                                    | 92.25                                 | 3,730.78                                 | -0.23                                   |
|                                            |                                              | 03/26/08              | --                            | 92.43                                    | 92.43                                 | 3,730.60                                 | -0.18                                   |
|                                            |                                              | 06/13/08              | --                            | 92.64                                    | 92.64                                 | 3,730.39                                 | -0.21                                   |
|                                            |                                              | 12/29/08              | --                            | 93.60                                    | 93.60                                 | 3,729.43                                 | -0.96                                   |
|                                            |                                              | 03/17/09              | --                            | 93.84                                    | 93.84                                 | 3,729.19                                 | -0.24                                   |
|                                            |                                              | 06/16/09              | --                            | 93.92                                    | 93.92                                 | 3,729.11                                 | -0.08                                   |
|                                            |                                              | 01/13/10              | --                            | 94.80                                    | 94.80                                 | 3,728.23                                 | -0.88                                   |
|                                            |                                              | 08/11/10              | --                            | 95.67                                    | 95.67                                 | 3,727.36                                 | -0.87                                   |
| MW-15                                      | 3,840.19                                     | 08/11/10              | --                            | 106.94                                   | 106.94                                | 3,733.25                                 | --                                      |
| 121.68                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-16                                      | 3,838.20                                     | 08/11/10              | --                            | 106.18                                   | 106.18                                | 3,732.02                                 | --                                      |
| 119.61                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-17                                      | 3,831.43                                     | 08/11/10              | --                            | 101.65                                   | 101.65                                | 3,729.78                                 | --                                      |
| 115.92                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-18                                      | 3,825.05                                     | 08/11/10              | --                            | 108.54                                   | 108.54                                | 3,716.51                                 | --                                      |
| 119.36                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-19                                      | 3,823.97                                     | 08/11/10              | --                            | 102.35                                   | 102.35                                | 3,721.62                                 | --                                      |
| 113.60                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-20                                      | 3,824.58                                     | 08/11/10              | --                            | 97.75                                    | 97.75                                 | 3,726.83                                 | --                                      |
| 111.82                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |

Table 4. Water Level Summary, Navajo Refining Company, Lovington Refinery

| Monitor Well,<br>Depth Below TOC<br>(feet)                                                                                 | Elevation<br>Top of<br>Casing<br>(TOC, feet) | Measure-<br>ment Date | Depth to<br>Product<br>(feet) | Depth to<br>Water<br>Below TOC<br>(feet) | Corrected<br>Depth to<br>Water (feet) | Corrected<br>Water Level<br>Elev. (feet) | Change from<br>previous<br>reading (ft) |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------|-------------------------------|------------------------------------------|---------------------------------------|------------------------------------------|-----------------------------------------|
| MW-21                                                                                                                      | 3,820.26                                     | 08/11/10              | --                            | 94.06                                    | 94.06                                 | 3,726.20                                 | --                                      |
| 108.31                                                                                                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-22                                                                                                                      | 3,821.82                                     | 08/11/10              | --                            | 95.62                                    | 95.62                                 | 3,726.20                                 | --                                      |
| 110.80                                                                                                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-23                                                                                                                      | 3,825.58                                     | 08/11/10              | --                            | 100.49                                   | 100.49                                | 3,725.09                                 | --                                      |
| 115.10                                                                                                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-24                                                                                                                      | 3,830.50                                     | 08/11/10              | --                            | 104.04                                   | 104.04                                | 3,726.46                                 | --                                      |
| 118.14                                                                                                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-25                                                                                                                      | 3,830.77                                     | 08/11/10              | --                            | 106.46                                   | 106.46                                | 3,724.31                                 | --                                      |
| 121.66                                                                                                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-26                                                                                                                      | 3,833.18                                     | 08/11/10              | --                            | 106.22                                   | 106.22                                | 3,726.96                                 | --                                      |
| 121.33                                                                                                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-27                                                                                                                      | 3,837.27                                     | 08/11/10              | --                            | 109.00                                   | 109.00                                | 3,728.27                                 | --                                      |
| 124.07                                                                                                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-28                                                                                                                      | 3,833.44                                     | 08/11/10              | --                            | 103.72                                   | 103.72                                | 3,729.72                                 | --                                      |
| 118.42                                                                                                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| MW-29                                                                                                                      | 3,835.55                                     | 08/11/10              | --                            | 105.80                                   | 105.80                                | 3,729.75                                 | --                                      |
| 120.42                                                                                                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| RW-1                                                                                                                       | 3,838.48                                     | 04/30/09              | --                            | 106.45                                   | 106.45                                | 3,732.03                                 | --                                      |
| 129.29                                                                                                                     |                                              | 06/10/09              | --                            | 106.59                                   | 106.59                                | 3,731.89                                 | -0.14                                   |
|                                                                                                                            |                                              | 06/19/09              | --                            | 106.61                                   | 106.61                                | 3,731.87                                 | -0.02                                   |
|                                                                                                                            |                                              | 07/02/09              | --                            | 106.82                                   | 106.82                                | 3,731.66                                 | -0.21                                   |
|                                                                                                                            |                                              | 07/24/09              | --                            | 106.92                                   | 106.92                                | 3,731.56                                 | -0.10                                   |
|                                                                                                                            |                                              | 09/24/09              | --                            | 107.42                                   | 107.42                                | 3,731.06                                 | -0.50                                   |
|                                                                                                                            |                                              | 10/27/09              | --                            | 107.53                                   | 107.53                                | 3,730.95                                 | -0.11                                   |
|                                                                                                                            |                                              | 01/13/10              | --                            | 107.67                                   | 107.67                                | 3,730.81                                 | -0.14                                   |
|                                                                                                                            |                                              | 02/02/10              | --                            | 107.69                                   | 107.69                                | 3,730.79                                 | -0.02                                   |
|                                                                                                                            |                                              | 04/01/10              | --                            | 107.60                                   | 107.60                                | 3,730.88                                 | 0.09                                    |
|                                                                                                                            |                                              | 08/11/10              | --                            | 108.18                                   | 108.18                                | 3,730.30                                 | -0.58                                   |
| Note: Replacement well, drilled April 2009.                                                                                |                                              |                       |                               |                                          |                                       |                                          |                                         |
| Notes:                                                                                                                     |                                              |                       |                               |                                          |                                       |                                          |                                         |
| 1. Monitoring wells MW-1 through MW-7 installed September 1995; plugged and redrilled April 2009.                          |                                              |                       |                               |                                          |                                       |                                          |                                         |
| 2. Monitoring wells MW-8 through MW-10 installed March and April 1996; plugged and redrilled April 2009.                   |                                              |                       |                               |                                          |                                       |                                          |                                         |
| 3. Monitoring wells MW-6R, MW-11, MW-12 installed April and May 2002; MW-6R plugged April 2009.                            |                                              |                       |                               |                                          |                                       |                                          |                                         |
| 4. Monitoring wells MW-13 and MW-14 installed January 2004.                                                                |                                              |                       |                               |                                          |                                       |                                          |                                         |
| 5. Elevation survey of new and existing wells August 7, 2009. Earlier water level information corrected to current survey. |                                              |                       |                               |                                          |                                       |                                          |                                         |
| 6. Monitoring wells MW-15 through MW-29 installed May-June 2010.                                                           |                                              |                       |                               |                                          |                                       |                                          |                                         |
| 7. Elevation survey of wells MW-15 through MW-29 July 13, 2010.                                                            |                                              |                       |                               |                                          |                                       |                                          |                                         |

**Table 5. Organic Constituent Concentrations in Groundwater,  
Navajo Refining Company, Lea Refinery, Lovington, NM.**

Table 5. Organic Constituent Concentrations in Groundwater, Navajo Refining Company, Lea Refinery, Lovington, NM

| Monitor Well                          | Sample Date | Benzene (mg/L) | Ethylbenzene (mg/L) | Toluene (mg/L) | Total Xylenes (mg/L) | MTBE (mg/L) | Total Naphthalene (8260, mg/L) | Total Naphthalene (8270, mg/L) | Other volatiles? (see notes) | Other semi-volatiles? (see notes) | Type?                       | Acetophenone (mg/L) |
|---------------------------------------|-------------|----------------|---------------------|----------------|----------------------|-------------|--------------------------------|--------------------------------|------------------------------|-----------------------------------|-----------------------------|---------------------|
| <b>NM WQCC Groundwater Standards:</b> |             |                |                     |                |                      |             |                                |                                |                              |                                   |                             |                     |
| <b>MW-1</b>                           | 06/19/09    | 0.010          | 0.75                | 0.75           | 0.62                 | --          | 0.03                           | 0.03                           | --                           | --                                | --                          | --                  |
|                                       | 01/19/10    | <0.0050        | 0.012               | <0.0050        | 0.031                | <0.0050     | <0.0050                        | <0.0020                        | Yes                          | Yes                               | Phthalates, phenol          | <0.00020            |
|                                       | 08/18/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | 0.00106                        | No                           | Yes                               | Phthalates, caprolactam     | <0.00020            |
|                                       |             | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates                  | <0.00020            |
| <b>MW-2</b>                           | 06/22/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates                  | <0.00020            |
|                                       | 01/19/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates, caprolactam     | <0.00020            |
|                                       | 08/16/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates, phenol          | <0.00020            |
| <b>MW-3</b>                           | 06/16/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates                  | <0.00020            |
|                                       | 01/14/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates                  | <0.00020            |
| (duplicate)                           | 01/14/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates, caprolactam     | <0.00020            |
|                                       | 08/19/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates                  | <0.00020            |
| <b>MW-4</b>                           | 06/16/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates                  | <0.00020            |
|                                       | 01/13/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates                  | <0.00020            |
|                                       | 08/19/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates                  | <0.00020            |
| <b>MW-5</b>                           | 06/16/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates                  | <0.00020            |
|                                       | 01/18/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates, caprolactam     | <0.00020            |
|                                       | 08/20/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates                  | <0.00020            |
| <b>MW-6</b>                           | 06/18/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | 0.0075                         | 0.0041                         | Yes                          | Yes                               | Phthalates, phenols, others | 0.021               |
| (duplicate)                           | 06/18/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | 0.0074                         | 0.0040                         | Yes                          | Yes                               | Phthalates, phenols, others | 0.021               |
|                                       | 02/02/10    | <0.0050        | 0.013               | <0.0050        | <0.015               | <0.0050     | 0.0099                         | 0.0232                         | Yes                          | Yes                               | Phthalates, phenols, others | 0.089               |
|                                       | 08/19/10    | <0.0050        | 0.015               | <0.0050        | <0.015               | <0.0050     | <0.0050                        | 0.0034                         | Yes                          | Yes                               | Phthalates, phenols, others | 0.014               |
| <b>MW-7</b>                           | 06/19/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | Yes                          | Yes                               | Phthalates                  | <0.00020            |
|                                       | 02/02/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates                  | <0.00020            |
|                                       | 08/18/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates                  | <0.00020            |
| <b>MW-8</b>                           | 06/18/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates                  | <0.00020            |
|                                       | 01/18/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates, caprolactam     | <0.00020            |
|                                       | 08/18/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates                  | <0.00020            |

Table 5. Organic Constituent Concentrations in Groundwater, Navajo Refining Company, Lea Refinery, Lovington, NM

| Monitor Well                          | Sample Date | Benzene (mg/L) | Ethylbenzene (mg/L) | Toluene (mg/L) | Total Xylenes (mg/L) | MTBE (mg/L) | Total Naphthalene (8260, mg/L) | Total Naphthalene (8270, mg/L) | Other volatiles? (see notes) | Other semi-volatiles? (see notes) | Type?                   | Acetophenone (mg/L) |
|---------------------------------------|-------------|----------------|---------------------|----------------|----------------------|-------------|--------------------------------|--------------------------------|------------------------------|-----------------------------------|-------------------------|---------------------|
| <b>NM WQCC Groundwater Standards:</b> |             |                |                     |                |                      |             |                                |                                |                              |                                   |                         |                     |
| <b>MW-9</b>                           | 06/16/09    | <b>0.010</b>   | <b>0.75</b>         | <b>0.75</b>    | <b>0.62</b>          | --          | <b>0.03</b>                    | <b>0.03</b>                    | --                           | --                                | --                      | --                  |
|                                       | 01/14/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | 0.00087                        | No                           | Yes                               | Phthalates              | <0.00020            |
|                                       | 08/19/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |
|                                       |             | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |
| <b>MW-10</b>                          | 06/16/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |
|                                       | 01/13/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |
|                                       | 08/19/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |
| <b>MW-11</b>                          | 06/16/09    | <b>0.10</b>    | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |
|                                       | 01/18/10    | <b>0.20 E</b>  | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates, caprolactam | <0.00020            |
|                                       | 08/18/10    | <b>0.078</b>   | 0.021               | <0.0050        | <0.015               | <0.0050     | <0.0050                        | 0.00036                        | No                           | Yes                               | Phthalates, phenols     | 0.00082             |
| <b>MW-12</b>                          | 06/16/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |
|                                       | 01/18/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates, caprolactam | <0.00020            |
|                                       | 08/20/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |
| <b>MW-13</b>                          | 06/16/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |
|                                       | 01/18/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates, caprolactam | <0.00020            |
|                                       | 08/18/10    | <b>0.016</b>   | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates, biphenyl    | <0.00020            |
| <b>MW-14</b>                          | 06/16/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |
|                                       | 01/18/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates, caprolactam | <0.00020            |
|                                       | 08/20/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |
| <b>MW-15</b>                          | 08/20/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | Yes                          | Yes                               | Phthalates              | <0.00020            |
| <b>MW-16</b>                          | 08/20/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |
| <b>MW-17</b>                          | 08/20/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |
| <b>MW-18</b>                          | 08/23/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | 0.00046             |
| <b>MW-19</b>                          | 08/23/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |
| <b>MW-20</b>                          | 08/23/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.00020                       | No                           | Yes                               | Phthalates              | <0.00020            |

Table 5. Organic Constituent Concentrations in Groundwater, Navajo Refining Company, Lea Refinery, Lovington, NM

| Monitor Well                   | Sample Date | Benzene (mg/L) | Ethylbenzene (mg/L) | Toluene (mg/L) | Total Xylenes (mg/L) | MTBE (mg/L) | Total Naphthalene (8260, mg/L) | Total Naphthalene (8270, mg/L) | Other volatiles? (see notes) | Other semi-volatiles? (see notes) | Type?                | Acetophenone (mg/L) |
|--------------------------------|-------------|----------------|---------------------|----------------|----------------------|-------------|--------------------------------|--------------------------------|------------------------------|-----------------------------------|----------------------|---------------------|
| NM WQCC Groundwater Standards: |             |                |                     |                |                      |             |                                |                                |                              |                                   |                      |                     |
| MW-21                          | 08/23/10    | 0.010          | 0.75                | 0.75           | 0.62                 | --          | 0.03                           | 0.03                           | --                           | --                                | --                   | --                  |
|                                |             | <0.0050        | <0.0050             | <0.0050        | <0.015               | >0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
| MW-22                          | 08/23/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
| MW-23                          | 08/23/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | >0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
| MW-24                          | 08/24/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | >0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates, atrazine | <0.00020            |
| MW-25                          | 08/23/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
| MW-26                          | 08/24/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | >0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
| MW-27                          | 08/27/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
| MW-28                          | 08/28/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | No                                |                      | <0.00020            |
| MW-29 (Dupl #1)                | 08/24/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
|                                |             | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
| RW-1                           | 06/19/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | Yes                          | Yes                               | Phthalates, phenol   | <0.00020            |
|                                | 02/02/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
|                                | 08/19/10    | <0.0050        | <0.0050             | <0.0050        | 0.015                | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
| North Well                     | 06/18/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
|                                | 01/14/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
|                                | 08/24/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | >0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
| South Well                     | 06/22/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
|                                | 01/14/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
|                                | 08/24/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
| East Well                      | 06/18/09    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
|                                | 01/14/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |
|                                | 08/25/10    | <0.0050        | <0.0050             | <0.0050        | <0.015               | <0.0050     | <0.0050                        | <0.0020                        | No                           | Yes                               | Phthalates           | <0.00020            |

Table 5. Organic Constituent Concentrations in Groundwater, Navajo Refining Company, Lea Refinery, Lovington, NM

| Monitor Well                                                                                                                                                                        | Sample Date | Benzene (mg/L) | Ethylbenzene (mg/L) | Toluene (mg/L) | Total Xylenes (mg/L) | MTBE (mg/L) | Total Naphthalene (8260, mg/L) | Total Naphthalene (8270, mg/L) | Other volatiles? (see notes) | Other semi-volatiles? (see notes) | Type? | Aceto-phenone (mg/L) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|---------------------|----------------|----------------------|-------------|--------------------------------|--------------------------------|------------------------------|-----------------------------------|-------|----------------------|
| NM WQCC Groundwater Standards:                                                                                                                                                      |             | 0.010          | 0.75                | 0.75           | 0.62                 | --          | 0.03                           | 0.03                           | --                           | --                                | --    | --                   |
| Notes:                                                                                                                                                                              |             |                |                     |                |                      |             |                                |                                |                              |                                   |       |                      |
| Yellow, constituent detected. <b>Bold</b> , exceeds NM WQCC standard                                                                                                                |             |                |                     |                |                      |             |                                |                                |                              |                                   |       |                      |
| E - Value above quantitation range                                                                                                                                                  |             |                |                     |                |                      |             |                                |                                |                              |                                   |       |                      |
| MW-1, 06/19/09: Low level detections for 1,2,4-Trimethylbenzene (0.0067 mg/L), and 2-Butanone (0.060 mg/L)                                                                          |             |                |                     |                |                      |             |                                |                                |                              |                                   |       |                      |
| MW-6, 06/18/09: Low level detections for 1,2,4-Trimethylbenzene (0.0058 mg/L), 2-Butanone (0.30 mg/L) and Acetone (0.059 mg/l)                                                      |             |                |                     |                |                      |             |                                |                                |                              |                                   |       |                      |
| MW-6, Duplicate 06/18/09: Low level detections for 1,2,4-Trimethylbenzene (0.0061 mg/L), 2-Butanone (0.28 mg/L) and Acetone (0.057 mg/l)                                            |             |                |                     |                |                      |             |                                |                                |                              |                                   |       |                      |
| MW-6, 02/02/10: Detections for 1,2,4-Trimethylbenzene (0.016 mg/L), 2-Butanone (0.066 mg/L), Acetone (0.19 mg/l), Isopropylbenzene (0.0088 mg/L), and n-Propylbenzene (0.0066 mg/L) |             |                |                     |                |                      |             |                                |                                |                              |                                   |       |                      |
| MW-7, 06/19/09: Low level detection for 2-Butanone (0.030 mg/L)                                                                                                                     |             |                |                     |                |                      |             |                                |                                |                              |                                   |       |                      |
| RW-1, 06/19/09: Low level detection for 2-Butanone (0.038 mg/L)                                                                                                                     |             |                |                     |                |                      |             |                                |                                |                              |                                   |       |                      |
| Complete analytical results shown in the Appendix                                                                                                                                   |             |                |                     |                |                      |             |                                |                                |                              |                                   |       |                      |
| Analyses performed by ALS Laboratory Group, Houston, Texas                                                                                                                          |             |                |                     |                |                      |             |                                |                                |                              |                                   |       |                      |

**Table 6. Inorganic Constituent Concentrations in Groundwater,  
Navajo Refining Company, Lea Refinery, Lovington, NM.**



Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

| Monitor Well                          | Sample Date | Chloride (mg/L) | Fluoride (mg/L) | Nitrate-N, mg/L | Sulfate (mg/L) | Total Dissolved Solids (mg/L) | Aluminum (mg/L) | Arsenic (mg/L) | Barium (mg/L) | Boron (mg/L) | Cadmium (mg/L) | Chromium (mg/L) | Cobalt (mg/L) |
|---------------------------------------|-------------|-----------------|-----------------|-----------------|----------------|-------------------------------|-----------------|----------------|---------------|--------------|----------------|-----------------|---------------|
| <b>NM WQCC Groundwater Standards:</b> |             |                 |                 |                 |                |                               |                 |                |               |              |                |                 |               |
| MW-1                                  | 06/19/09    | 250             | 1.6             | 10              | 600            | 1,000                         | 5.0             | 0.1            | 1.0           | 0.75         | 0.01           | 0.05            | 0.05          |
|                                       | 01/19/10    | 131             | 0.827           | 3.75            | 123            | 694                           | <0.0100         | 0.00914        | 0.147         | 0.175        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 08/18/10    | 266             | 0.249           | 5.84            | 145            | 1,240                         | 0.0202          | 0.00634        | 0.164         | 0.236        | <0.00200       | <0.00500        | <0.00500      |
|                                       |             | 126             | 0.623           | 2.59            | 111            | 694                           | <0.0100         | 0.00841        | 0.117         | 0.182        | <0.00200       | <0.00500        | <0.00500      |
| MW-2                                  | 06/22/09    | 252             | 0.765           | 2.69            | 66.8           | 988                           | 0.0657          | 0.0386         | 0.0803        | 0.190        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 01/19/10    | 246             | 0.672           | 3.39            | 55.1           | 966                           | <0.0100         | <0.00500       | 0.00500       | 0.191        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 08/16/10    | 276             | 0.824           | 55.9            | 3.23           | 1,180                         | 0.1367          | <0.00500       | 0.193         | 0.155        | <0.00200       | <0.00500        | <0.00500      |
| MW-3                                  | 06/16/09    | 29.1            | 3.38            | 2.19            | 64.6           | 504                           | 0.308           | 0.00815        | 0.115         | 0.160        | <0.00200       | 0.00709         | <0.00500      |
|                                       | 01/14/10    | 49.9            | 3.18            | 2.11            | 76.5           | 540                           | 0.144           | 0.00703        | 0.119         | 0.148        | <0.00200       | 0.00977         | <0.00500      |
| (duplicate)                           | 01/14/10    | 49.8            | 3.18            | 2.11            | 75.0           | 552                           | 0.142           | 0.00798        | 0.125         | 0.167        | <0.00200       | 0.0105          | <0.00500      |
|                                       | 08/19/10    | 72.7            | 2.99            | 1.52            | 77.7           | 518                           | 0.0767          | 0.00935        | 0.127         | 0.151        | <0.00200       | <0.00500        | <0.00500      |
| MW-4                                  | 06/16/09    | 28.9            | 0.841           | 1.84            | 61.5           | 422                           | 0.180           | <0.00500       | 0.174         | 0.160        | <0.00200       | 0.00534         | <0.00500      |
|                                       | 01/13/10    | 29.3            | 1.10            | 1.67            | 66.7           | 416                           | 0.0345          | <0.00500       | 0.0932        | 0.177        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 08/19/10    | 26.1            | 1.10            | 1.1             | 65.8           | 324                           | 0.0607          | <0.00500       | 0.0862        | 0.136        | <0.00200       | <0.00500        | <0.00500      |
| MW-5                                  | 06/16/09    | 186             | 1.39            | 3.31            | 131            | 952                           | 0.796           | 0.0233         | 0.0639        | 0.116        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 01/18/10    | 26.4            | 0.781           | 4.91            | 80.6           | 508                           | <0.0100         | <0.00500       | 0.0966        | 0.135        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 08/20/10    | 18.5            | 1.13            | 3.43            | 77.7           | 440                           | 0.0814          | <0.00500       | 0.0967        | 0.0986       | <0.00200       | <0.00500        | <0.00500      |
| MW-6                                  | 06/18/09    | 188             | 0.113           | 0.678           | 101            | 844                           | <0.0100         | 0.0201         | 0.186         | 0.175        | <0.00200       | <0.00500        | <0.00500      |
| (duplicate)                           | 06/18/09    | 168             | <0.100          | 0.682           | 90.4           | 812                           | <0.0100         | 0.0221         | 0.200         | 0.192        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 02/02/10    | 334             | <0.100          | 0.822           | 90.2           | 1,400                         | <0.0200         | 0.0250         | 0.499         | 0.234        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 08/19/10    | 285             | <0.100          | <1.00           | 111            | 1,350                         | 0.0152          | 0.0456         | 0.376         | 0.244        | <0.00200       | <0.00500        | <0.00500      |
| MW-7                                  | 06/19/09    | 30.6            | 1.12            | 1.66            | 67.2           | 384                           | <0.0100         | 0.00923        | 0.169         | 0.161        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 02/02/10    | 28.0            | 0.854           | 1.72            | 62.2           | 350                           | <0.0200         | 0.00869        | 0.199         | 0.169        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 08/18/10    | 27.2            | 0.570           | 1.12            | 60.2           | 370                           | 0.0223          | 0.00532        | 0.252         | 0.161        | <0.00200       | <0.00500        | <0.00500      |
| MW-8                                  | 06/18/09    | 219             | 0.730           | 3.46            | 73.3           | 798                           | <0.0100         | 0.00501        | 0.181         | 0.228        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 01/18/10    | 151             | 0.493           | 3.80            | 67.6           | 742                           | <0.0100         | 0.00726        | 0.157         | 0.215        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 08/18/10    | 279             | 0.56            | 7.08            | 65.3           | 1,260                         | 0.0377          | 0.00676        | 0.204         | 0.170        | <0.00200       | <0.00500        | <0.00500      |

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

| Monitor Well                          | Sample Date | Copper (mg/L) | Iron (mg/L) | Lead (mg/L) | Manganese (mg/L) | Total Mercury (mg/L) | Molybdenum (mg/L) | Nickel (mg/L) | Selenium (mg/L) | Silver (mg/L) | Uranium (mg/L) | Zinc (mg/L) |
|---------------------------------------|-------------|---------------|-------------|-------------|------------------|----------------------|-------------------|---------------|-----------------|---------------|----------------|-------------|
| <b>NM WQCC Groundwater Standards:</b> |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
| MW-1                                  | 06/19/09    | 1.0           | 1.0         | 0.05        | 0.20             | 0.002                | 1.0               | 0.2           | 0.05            | 0.05          | 0.03           | 10.0        |
|                                       |             | <0.00500      | <0.200      | <0.00500    | 0.974            | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | --             | 0.0124      |
|                                       | 01/19/10    | <0.00500      | <0.200      | <0.00500    | 2.72             | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | 0.00615        | 0.00989     |
| MW-2                                  | 08/18/10    | <0.00500      | <0.200      | <0.00500    | 1.62             | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.00538     |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 06/22/09    | 0.00621       | <0.200      | <0.00500    | 0.00583          | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | --             | 0.110       |
|                                       | 01/19/10    | <0.00500      | <0.200      | <0.00500    | 0.00538          | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.0166      |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 08/16/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.0204      |
| MW-3                                  |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 06/16/09    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | 0.0151            | <0.00500      | <0.00500        | <0.00500      | --             | <0.0100     |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
| (duplicate)                           | 01/14/10    | 0.121         | <0.200      | <0.00500    | 0.00597          | <0.000200            | 0.0200            | 0.00842       | <0.00500        | <0.00500      | 0.000625       | 0.0195      |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 01/14/10    | 0.148         | <0.200      | <0.00500    | 0.00699          | <0.000200            | 0.0216            | 0.0096        | <0.00500        | <0.00500      | 0.000721       | 0.0230      |
| MW-4                                  | 08/19/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | 0.00790           | <0.00500      | <0.00500        | <0.00500      | <0.00500       | <0.00500    |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 06/16/09    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | --             | 0.0120      |
|                                       | 01/13/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | 0.00102        | <0.00500    |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 08/19/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | <0.00500    |
| MW-5                                  |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 06/16/09    | <0.00500      | 0.399       | <0.00500    | 0.0067           | <0.000200            | 0.0103            | <0.00500      | <0.00500        | <0.00500      | --             | <0.0100     |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 01/18/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | <0.00500    |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 08/20/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | <0.00500    |
| MW-6                                  |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 06/18/09    | <0.00500      | 0.418       | <0.00500    | 2.86             | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | --             | 0.00996     |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
| (duplicate)                           | 06/18/09    | <0.00500      | 0.219       | <0.00500    | 2.76             | <0.000200            | <0.00500          | 0.00653       | <0.00500        | <0.00500      | --             | 0.0141      |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 02/02/10    | <0.00500      | 2.08        | <0.00500    | 4.51             | <0.000200            | <0.00500          | 0.00634       | <0.00500        | <0.00500      | 0.0113         | <0.00500    |
|                                       | 08/19/10    | <0.00500      | 1.86        | <0.00500    | 6.61             | <0.000200            | <0.00500          | 0.00766       | <0.00500        | <0.00500      | 0.00785        | <0.00500    |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
| MW-7                                  |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 06/19/09    | <0.00500      | <0.200      | <0.00500    | 0.127            | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | --             | 0.0137      |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 02/02/10    | <0.00500      | <0.200      | <0.00500    | 0.125            | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | <0.00500    |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 08/18/10    | <0.00500      | <0.200      | <0.00500    | 0.343            | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | <0.00500    |
| MW-8                                  |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 06/18/09    | <0.00500      | <0.200      | <0.00500    | 0.00919          | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | --             | 0.0458      |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 01/18/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.00545     |
|                                       |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       | 08/18/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | 0.00501        | 0.00760     |

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

| Monitor Well                          | Sample Date | Chloride (mg/L) | Fluoride (mg/L) | Nitrate-Nitrite (as N, mg/L) | Sulfate (mg/L) | Total Dissolved Solids (mg/L) | Aluminum (mg/L) | Arsenic (mg/L) | Barium (mg/L) | Boron (mg/L) | Cadmium (mg/L) | Chromium (mg/L) | Cobalt (mg/L) |
|---------------------------------------|-------------|-----------------|-----------------|------------------------------|----------------|-------------------------------|-----------------|----------------|---------------|--------------|----------------|-----------------|---------------|
| <b>NM WQCC Groundwater Standards:</b> |             | <b>250</b>      | <b>1.6</b>      | <b>10</b>                    | <b>600</b>     | <b>1,000</b>                  | <b>5.0</b>      | <b>0.1</b>     | <b>1.0</b>    | <b>0.75</b>  | <b>0.01</b>    | <b>0.05</b>     | <b>0.05</b>   |
| MW-9                                  | 06/16/09    | 23.0            | 1.69            | 0.748                        | 73.2           | 380                           | 0.0468          | 0.0373         | 0.0911        | 0.122        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 01/14/10    | 23.9            | 1.78            | 1.72                         | 74.4           | 450                           | 0.0164          | 0.0351         | 0.0676        | 0.139        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 08/19/10    | 21.8            | 1.64            | 1.32                         | 75.2           | 412                           | 0.115           | 0.0358         | 0.0649        | 0.121        | <0.00200       | <0.00500        | <0.00500      |
| MW-10                                 | 06/16/09    | 32.2            | 0.878           | 1.83                         | 76.5           | 378                           | <0.0200         | <0.00500       | 0.113         | 0.138        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 01/13/10    | 33.4            | 1.05            | 1.84                         | 77.9           | 436                           | <0.0100         | <0.00500       | 0.0815        | 0.162        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 08/19/10    | 31.7            | 1.07            | 1.91                         | 79.8           | 508                           | 0.0556          | <0.00500       | 0.0798        | 0.129        | <0.00200       | <0.00500        | <0.00500      |
| MW-11                                 | 06/18/09    | 204             | 0.579           | 1.23                         | 43.1           | 994                           | <0.0100         | <0.00500       | 0.194         | 0.199        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 01/18/10    | 164             | 0.527           | 1.37                         | 71.4           | 842                           | <0.0100         | <0.00500       | 0.147         | 0.238        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 08/18/10    | 146             | 0.616           | 2.38                         | 50.6           | 802                           | 0.0125          | <0.00500       | 0.471         | 0.255        | <0.00200       | <0.00500        | <0.00500      |
| MW-12                                 | 06/16/09    | 23.0            | 1.16            | 1.98                         | 49.6           | 354                           | <0.0200         | 0.00516        | 0.0775        | 0.200        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 01/18/10    | 26.1            | 1.05            | 2.31                         | 49.8           | 398                           | <0.0100         | <0.00500       | 0.0755        | 0.235        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 08/20/10    | 25.8            | 1.22            | 2.00                         | 50.3           | 340                           | 0.115           | 0.00550        | 0.0756        | 0.176        | <0.00200       | <0.00500        | <0.00500      |
| MW-13                                 | 06/16/09    | 425             | 0.220           | 2.65                         | 138            | 1,790                         | <0.0200         | <0.00500       | 0.0692        | 0.253        | <0.00200       | <0.00500        | 0.0285        |
|                                       | 01/18/10    | 604             | 0.170           | 1.08                         | 79.8           | 2,210                         | <0.0100         | <0.00500       | 0.111         | 0.231        | <0.00200       | 0.00728         | 0.00624       |
|                                       | 08/18/10    | 390             | 0.278           | <1.00                        | 144            | 1,720                         | 0.0196          | <0.00500       | 0.106         | 0.221        | <0.00200       | <0.00500        | <0.00500      |
| MW-14                                 | 06/16/09    | 93.0            | 0.851           | 5.16                         | 60.9           | 540                           | <0.0200         | <0.00500       | 0.0770        | 0.132        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 01/18/10    | 103             | 0.810           | 6.03                         | 59.0           | 598                           | <0.0100         | <0.00500       | <0.00500      | <0.0200      | <0.00200       | <0.00500        | <0.00500      |
|                                       | 08/20/10    | 74.1            | 0.986           | 2.76                         | 61.3           | 340                           | 0.103           | <0.00500       | 0.0774        | 0.131        | <0.00200       | 0.0119          | <0.00500      |
| MW-15                                 | 08/20/10    | 221             | 0.921           | 3.22                         | 77.6           | 776                           | 0.079           | <0.00500       | 0.145         | 0.175        | <0.00200       | <0.00500        | <0.00500      |
| MW-16                                 | 08/20/10    | 25.3            | 0.930           | 1.13                         | 73.7           | 406                           | 0.0746          | <0.00500       | 0.109         | 0.156        | <0.00200       | <0.00500        | <0.00500      |
| MW-17                                 | 08/20/10    | 426             | 0.517           | 4.27                         | 72.6           | 1,650                         | 0.146           | <0.00500       | 0.18          | 0.157        | <0.00200       | <0.00500        | <0.00500      |
| MW-18                                 | 08/23/10    | 176             | 0.456           | 0.733                        | 287.0          | 1,080                         | 0.0787          | <0.00500       | 0.0575        | 0.334        | <0.00200       | <0.00500        | <0.00500      |
| MW-19                                 | 08/23/10    | 469             | 0.556           | 2.94                         | 178.0          | 1,650                         | 0.101           | 0.0476         | 0.229         | <0.0200      | <0.00200       | <0.00500        | <0.00500      |

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

| Monitor Well                   | Sample Date | Copper (mg/L) | Iron (mg/L) | Lead (mg/L) | Manganese (mg/L) | Total Mercury (mg/L) | Molybdenum (mg/L) | Nickel (mg/L) | Selenium (mg/L) | Silver (mg/L) | Uranium (mg/L) | Zinc (mg/L) |
|--------------------------------|-------------|---------------|-------------|-------------|------------------|----------------------|-------------------|---------------|-----------------|---------------|----------------|-------------|
| NM WQCC Groundwater Standards: |             | 1.0           | 1.0         | 0.05        | 0.20             | 0.002                | 1.0               | 0.2           | 0.05            | 0.05          | 0.03           | 10.0        |
| MW-9                           | 06/16/09    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | --             | <0.0100     |
|                                | 01/14/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | 0.000656       | <0.00500    |
|                                | 08/19/10    | <0.00500      | <0.200      | <0.00500    | 0.00961          | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | <0.00500    |
| MW-10                          | 06/16/09    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | --             | 0.0127      |
|                                | 01/13/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | 0.000911       | 0.0133      |
|                                | 08/19/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.00569     |
| MW-11                          | 06/18/09    | <0.00500      | 0.571       | <0.00500    | <b>0.387</b>     | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | --             | 0.0212      |
|                                | 01/18/10    | <0.00500      | <0.200      | <0.00500    | 0.0559           | <0.000200            | <0.00500          | 0.0126        | <0.00500        | <0.00500      | 0.00635        | <0.00500    |
|                                | 08/18/10    | <0.00500      | 0.347       | <0.00500    | <b>0.571</b>     | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | 0.00718        | <0.00500    |
| MW-12                          | 06/16/09    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | --             | <0.0100     |
|                                | 01/18/10    | <0.00500      | <0.200      | <0.00500    | 0.0219           | <0.000200            | <0.00500          | 0.0182        | <0.00500        | <0.00500      | <0.00500       | <0.00500    |
|                                | 08/20/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | <0.00500    |
| MW-13                          | 06/16/09    | <0.00500      | <0.200      | <0.00500    | 0.0176           | <0.000200            | <0.00500          | 0.0126        | <0.00500        | <0.00500      | --             | 0.0269      |
|                                | 01/18/10    | <0.00500      | <0.200      | <0.00500    | 0.0591           | <0.000200            | <0.00500          | 0.0110        | <0.00500        | <0.00500      | 0.0119         | 0.00769     |
|                                | 08/18/10    | <0.00500      | <0.200      | <0.00500    | <b>0.256</b>     | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | 0.0128         | 0.00618     |
| MW-14                          | 06/16/09    | <0.00500      | <0.200      | <0.00500    | 0.0199           | <0.000200            | 0.0215            | <0.00501      | <0.00500        | <0.00500      | --             | 0.0255      |
|                                | 01/18/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | <0.00500    |
|                                | 08/20/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | 0.00964           | 0.0480        | <0.00500        | <0.00500      | 0.00527        | <0.00500    |
| MW-15                          | 08/20/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.0198      |
|                                |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
| MW-16                          | 08/20/10    | <0.00500      | <0.200      | <0.00500    | 0.00554          | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.0145      |
|                                |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
| MW-17                          | 08/20/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.0142      |
|                                |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
| MW-18                          | 08/23/10    | <0.00500      | <0.200      | <0.00500    | <b>0.314</b>     | <0.000200            | 0.00561           | 0.0298        | 0.00548         | <0.00500      | 0.0123         | 0.0772      |
|                                |             |               |             |             |                  |                      |                   |               |                 |               |                |             |
| MW-19                          | 08/23/10    | <0.00500      | <0.200      | <0.00500    | 0.00666          | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.0227      |
|                                |             |               |             |             |                  |                      |                   |               |                 |               |                |             |

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

| Monitor Well                  | Sample Date | Chloride (mg/L) | Fluoride (mg/L) | Nitrate-N (mg/L) | Sulfate (mg/L) | Total Dissolved Solids (mg/L) | Aluminum (mg/L) | Arsenic (mg/L) | Barium (mg/L) | Boron (mg/L) | Cadmium (mg/L) | Chromium (mg/L) | Cobalt (mg/L) |
|-------------------------------|-------------|-----------------|-----------------|------------------|----------------|-------------------------------|-----------------|----------------|---------------|--------------|----------------|-----------------|---------------|
| <b>NM WQCC</b>                |             |                 |                 |                  |                |                               |                 |                |               |              |                |                 |               |
| <b>Groundwater Standards:</b> |             | <b>250</b>      | <b>1.6</b>      | <b>10</b>        | <b>600</b>     | <b>1,000</b>                  | <b>5.0</b>      | <b>0.1</b>     | <b>1.0</b>    | <b>0.75</b>  | <b>0.01</b>    | <b>0.05</b>     | <b>0.05</b>   |
| MW-20                         | 08/23/10    | 169             | 0.570           | 1.74             | 65.1           | 868                           | 0.0891          | <0.00500       | 0.122         | 0.143        | <0.00200       | <0.00500        | <0.00500      |
| MW-21                         | 08/23/10    | 115             | 0.250           | 2.12             | 52.7           | 966                           | 0.195           | <0.00500       | <0.00500      | 0.232        | 0              | <0.00500        | <0.00500      |
| MW-22                         | 08/23/10    | 115             | 0.552           | 1.76             | 62.3           | 726                           | 0.121           | <0.00500       | 0.165         | 0.174        | <0.00200       | <0.00500        | <0.00500      |
| MW-23                         | 08/23/10    | 645             | 0.782           | 2.92             | 121.0          | 2,260                         | 0.237           | <0.00500       | 0.245         | 0.157        | <0.00200       | <0.00500        | <0.00500      |
| MW-24                         | 08/24/10    | 34.6            | 2.31            | 2.40             | 53.9           | 422                           | 0.187           | <0.00500       | 0.0867        | 0.140        | <0.00200       | <0.00500        | <0.00500      |
| MW-25                         | 08/23/10    | 178             | 0.871           | 2.42             | 182.0          | 946                           | 0.244           | <0.00500       | 0.246         | 0.174        | <0.00200       | 0.0476          | <0.00500      |
| MW-26                         | 08/24/10    | 217             | 0.484           | 2.88             | 98.5           | 958                           | 0.115           | <0.00500       | 0.131         | 0.169        | <0.00200       | <0.00500        | <0.00500      |
| MW-27                         | 08/18/10    | 115             | 0.644           | 5.10             | 118.0          | 752                           | 0.218           | <0.00500       | 0.100         | 0.152        | <0.00200       | <0.00500        | <0.00500      |
| MW-28                         | 08/24/10    | 71.2            | 1.66            | 1.70             | 60.3           | 440                           | 0.129           | <0.00500       | 0.0846        | 0.153        | <0.00200       | <0.00500        | <0.00500      |
| MW-29                         | 08/24/10    | 456             | 0.753           | 2.18             | 167.0          | 726                           | 0.0261          | <0.00500       | 0.0644        | 0.189        | <0.00200       | 0.0317          | <0.00500      |
| Dupl. #1                      | 08/24/10    | 132             | 0.741           | 2.15             | 100            | 742                           | <0.0100         | <0.00500       | 0.0652        | 0.186        | <0.00200       | 0.0321          | <0.00500      |
| RW-1                          | 06/19/09    | 34.8            | 1.21            | --               | 70.8           | 398                           | <0.0100         | 0.010          | 0.160         | 0.161        | <0.00200       | <0.00500        | <0.00500      |
|                               | 02/02/10    | 34.2            | 0.913           | 1.52             | 66.0           | 388                           | <0.0200         | 0.00857        | 0.190         | 0.166        | <0.00200       | <0.00500        | <0.00500      |
|                               | 08/19/10    | 27.8            | 0.991           | 1.42             | 72.3           | 380                           | 0.0202          | 0.0104         | 0.162         | 0.154        | <0.00200       | 0.0321          | <0.00500      |
| North Well                    | 06/18/09    | 140             | 0.933           | 2.72             | 80.6           | 664                           | <0.0100         | 0.00536        | 0.0997        | 0.151        | <0.00200       | 0.0104          | <0.00500      |
|                               | 01/14/10    | 143             | 0.793           | 2.90             | 74.2           | 638                           | <0.0100         | <0.00500       | 0.107         | 0.172        | <0.00200       | <0.00500        | <0.00500      |
|                               | 08/24/10    | 127             | 0.932           | 1.81             | 80.4           | 594                           | <0.0100         | 0.00552        | 0.100         | 0.147        | <0.00200       | <0.00500        | <0.00500      |
| South Well                    | 06/22/09    | 497             | 0.665           | 3.02             | 106            | 1,450                         | <0.0100         | <0.00500       | 0.154         | 0.189        | <0.00200       | <0.00500        | <0.00500      |
|                               | 01/14/10    | 498             | 0.686           | 3.27             | 113            | 1,520                         | 0.0176          | <0.00500       | 0.138         | 0.229        | <0.00200       | <0.00500        | <0.00500      |
|                               | 08/24/10    | 477             | 0.651           | 2.18             | 101            | 1,760                         | <0.0100         | <0.00500       | 0.172         | 0.186        | <0.00200       | <0.00500        | <0.00500      |

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

| Monitor Well                         | Sample Date | Copper (mg/L) | Iron (mg/L) | Lead (mg/L) | Manganese (mg/L) | Total Mercury (mg/L) | Molybdenum (mg/L) | Nickel (mg/L) | Selenium (mg/L) | Silver (mg/L) | Uranium (mg/L) | Zinc (mg/L) |
|--------------------------------------|-------------|---------------|-------------|-------------|------------------|----------------------|-------------------|---------------|-----------------|---------------|----------------|-------------|
| <b>NMWQCC Groundwater Standards:</b> |             | <b>1.0</b>    | <b>1.0</b>  | <b>0.05</b> | <b>0.20</b>      | <b>0.002</b>         | <b>1.0</b>        | <b>0.2</b>    | <b>0.05</b>     | <b>0.05</b>   | <b>0.03</b>    | <b>10.0</b> |
| MW-20                                | 08/23/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.00970     |
| MW-21                                | 08/23/10    | <0.00500      | <0.200      | <0.00500    | 0.0567           | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | 0.00898        | 0.0307      |
| MW-22                                | 08/23/10    | <0.00500      | <0.200      | <0.00500    | 0.0306           | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | 0.00604        | 0.0916      |
| MW-23                                | 08/23/10    | <0.00500      | <0.200      | <0.00500    | 0.00669          | <0.000200            | <0.00500          | 0.00859       | <0.00500        | <0.00500      | <0.00500       | 0.0570      |
| MW-24                                | 08/24/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.00922     |
| MW-25                                | 08/23/10    | <0.00500      | <0.200      | <0.00500    | 0.0109           | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.0194      |
| MW-26                                | 08/24/10    | <0.00500      | <0.200      | <0.00500    | 0.0156           | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.0161      |
| MW-27                                | 08/18/10    | <0.00500      | <0.200      | <0.00500    | 0.0534           | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | 0.00544        | 0.0213      |
| MW-28                                | 08/24/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | <0.00500    |
| MW-29                                | 08/24/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.0433      |
| Dupl. #1                             | 08/24/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.0375      |
| RW-1                                 | 06/19/09    | <0.00500      | <0.200      | <0.00500    | 0.0380           | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | --             | 0.00548     |
|                                      | 02/02/10    | <0.00500      | <0.200      | <0.00500    | 0.0467           | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | <0.00500    |
|                                      | 08/19/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | <0.00500    |
| North Well                           | 06/18/09    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | --             | <0.00500    |
|                                      | 01/14/10    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | 0.00134        | <0.00500    |
|                                      | 08/24/10    | 0.00856       | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | 0.0161        | <0.00500        | <0.00500      | <0.00500       | 0.00920     |
| South Well                           | 06/22/09    | <0.00500      | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | --             | 0.0195      |
|                                      | 01/14/10    | <0.00500      | <0.200      | <0.00500    | 0.0224           | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | 0.00236        | <0.00500    |
|                                      | 08/24/10    | <0.00500      | <0.200      | <0.00500    | 0.00576          | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.0207      |

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

| Monitor Well                          | Sample Date | Chloride (mg/L)                                            | Fluoride (mg/L) | Nitrate-Nitrite (as N, mg/L) | Sulfate (mg/L) | Total Dissolved Solids (mg/L) | Aluminum (mg/L) | Arsenic (mg/L) | Barium (mg/L) | Boron (mg/L) | Cadmium (mg/L) | Chromium (mg/L) | Cobalt (mg/L) |
|---------------------------------------|-------------|------------------------------------------------------------|-----------------|------------------------------|----------------|-------------------------------|-----------------|----------------|---------------|--------------|----------------|-----------------|---------------|
| <b>NM WQCC Groundwater Standards:</b> |             |                                                            |                 |                              |                |                               |                 |                |               |              |                |                 |               |
| East Well                             | 06/18/09    | 250                                                        | 1.6             | 10                           | 600            | 1,000                         | 5.0             | 0.1            | 1.0           | 0.75         | 0.01           | 0.05            | 0.05          |
|                                       | 01/14/10    | 107                                                        | 0.980           | 2.59                         | 84.0           | 554                           | 0.0131          | <0.00500       | 0.0820        | 0.143        | <0.00200       | <0.00500        | <0.00500      |
|                                       | 08/25/10    | 138                                                        | 0.991           | 2.70                         | 72.7           | 676                           | <0.0100         | <0.00500       | 0.0941        | 0.154        | <0.00200       | 0.0119          | <0.00500      |
|                                       |             | 106                                                        | 1.00            |                              |                | 522                           | <0.0100         | <0.00500       | 0.0873        | 0.136        | <0.00200       | 0.0145          | <0.00500      |
| <b>NM WQCC Groundwater Standards:</b> |             |                                                            |                 |                              |                |                               |                 |                |               |              |                |                 |               |
|                                       |             | 250                                                        | 1.6             | 10                           | 600            | 1,000                         | 5.0             | 0.1            | 1.0           | 0.750        | 0.01           | 0.05            | 0.05          |
|                                       |             | Notes:                                                     |                 |                              |                |                               |                 |                |               |              |                |                 |               |
|                                       |             | Bold highlighted, exceeds NM WQCC standard                 |                 |                              |                |                               |                 |                |               |              |                |                 |               |
|                                       |             | Samples field filtered except for Total Mercury            |                 |                              |                |                               |                 |                |               |              |                |                 |               |
|                                       |             | Uranium not analyzed for 06/09 sample set                  |                 |                              |                |                               |                 |                |               |              |                |                 |               |
|                                       |             | Analyses performed by ALS Laboratory Group, Houston, Texas |                 |                              |                |                               |                 |                |               |              |                |                 |               |

Table 6. Inorganic Constituent Concentrations in Groundwater, Navajo Refining Company, Lovington Refinery

| Monitor Well                          | Sample Date | Copper (mg/L)                                              | Iron (mg/L) | Lead (mg/L) | Manganese (mg/L) | Total Mercury (mg/L) | Molybdenum (mg/L) | Nickel (mg/L) | Selenium (mg/L) | Silver (mg/L) | Uranium (mg/L) | Zinc (mg/L) |
|---------------------------------------|-------------|------------------------------------------------------------|-------------|-------------|------------------|----------------------|-------------------|---------------|-----------------|---------------|----------------|-------------|
| <b>NM WQCC Groundwater Standards:</b> |             |                                                            |             |             |                  |                      |                   |               |                 |               |                |             |
| East Well                             | 06/18/09    | 1.0                                                        | 1.0         | 0.05        | 0.20             | 0.002                | 1.0               | 0.2           | 0.05            | 0.05          | 0.03           | 10.0        |
|                                       |             | <0.00500                                                   | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | --             | 0.0172      |
|                                       | 01/14/10    | 0.00953                                                    | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | 0.00111        | 0.0291      |
|                                       | 08/25/10    | 0.00745                                                    | <0.200      | <0.00500    | <0.00500         | <0.000200            | <0.00500          | <0.00500      | <0.00500        | <0.00500      | <0.00500       | 0.0146      |
| <b>NM WQCC Groundwater Standards:</b> |             |                                                            |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       |             | 1.0                                                        | 1.0         | 0.05        | 0.20             | 0.002                | 1.0               | 0.2           | 0.05            | 0.05          | 0.03           | 10.0        |
|                                       |             | Notes:                                                     |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       |             | Bold, exceeds NM WQCC standard                             |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       |             | Samples field filtered except for Total Mercury            |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       |             | Uranium not analyzed for this sample set                   |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       |             | Analyses performed by ALS Laboratory Group, Houston, Texas |             |             |                  |                      |                   |               |                 |               |                |             |
|                                       |             | Complete analytical results shown in the Appendix          |             |             |                  |                      |                   |               |                 |               |                |             |



**Table 7. Navajo-Holly Pipeline Information,  
Navajo Refining Company, Lea Refinery, Lovington, NM.**

Table 7. Navajo-Holly Pipeline Information, Navajo Lea Refinery, November 2010

| New Number                                                                 | Name               | Type               | Size         | Location    | From              | To                                      |
|----------------------------------------------------------------------------|--------------------|--------------------|--------------|-------------|-------------------|-----------------------------------------|
| 1                                                                          | Enterprise         | Light Run          | 6-in. steel  | Holly south | Texas             | Lea, connects with # 9                  |
| 2                                                                          | DCP                | Stabilizer off gas | 4-in. steel  | Lea N to S  | Lea Refinery      | DCP midstream                           |
| 3                                                                          | RO reject          | RO reject water    | 4-in poly    | Lea north   | Refinery          | Currently out of service                |
| 4                                                                          | Crouch             | Incoming crude     | 8-in. steel  | Holly north | Oil field         | Lea Refinery                            |
| 5                                                                          | Gas Co. of NM      | Natural gas (fuel) | 6-in. steel  | Holly north | Gas Co.           | Lea Refinery (loop)                     |
| 6                                                                          | Beeson             | Incoming crude     | 8-in. steel  | Holly north | Oil field         | Lea Refinery                            |
| 7                                                                          | Hobbs station      | Incoming crude     | 8-in. steel  | Holly north | Hobbs station     | Lea Refinery                            |
| 8                                                                          | Empire             | Outgoing process   | 10-in. steel | Holly south | Lea Refinery      | Artesia Refinery                        |
| 9                                                                          | Lea 8-in.          | Light Run          | 8-in. steel  | Holly south | Enterprise        | Artesia Refinery                        |
| 10                                                                         | Lov. To Art. Crude | Crude              | 16-in. steel | Holly south | Lea Refinery      | Artesia Refinery                        |
| 11                                                                         | Roadrunner         | Canadian crude     | 16-in. steel | Holly south | Canada            | Lea, connects with new # 10             |
| 12                                                                         | Wastewater         | Wastewater         | 6-in. poly   | Lea north   | Lea Refinery      | Lovington WWTP                          |
| 13                                                                         | Russell            | Incoming crude     | 12-in. steel | Lea north   | Russell stat.(TX) | Lea Refinery                            |
| 14                                                                         | Plains             | Crude              | 8-in. steel  | Lea center  | Pass-through,     | out of service 3-4 years, purged        |
| Not shown                                                                  | Multi-purpose      | Crude/process      | 12-in. steel | Lea N to S  | Lea north         | Connects with Lov. to Art. # 8 and # 10 |
| Not shown                                                                  | Chevron            | Incoming crude     | 4-in. poly   | Lea S to N  | Oil field         | Lea Refinery                            |
| Note:                                                                      |                    |                    |              |             |                   |                                         |
| Holly north refers to pipeline and manifolds near MW-16 on the site plan.  |                    |                    |              |             |                   |                                         |
| Holly south refers to pipelines and manifolds near MW-14 on the site plan. |                    |                    |              |             |                   |                                         |
| Lea north refers to pipelines in the area of the refinery process area.    |                    |                    |              |             |                   |                                         |

**Figure 1. Location Map, Navajo Refining Company, Lea Refinery,  
Lovington, New Mexico**

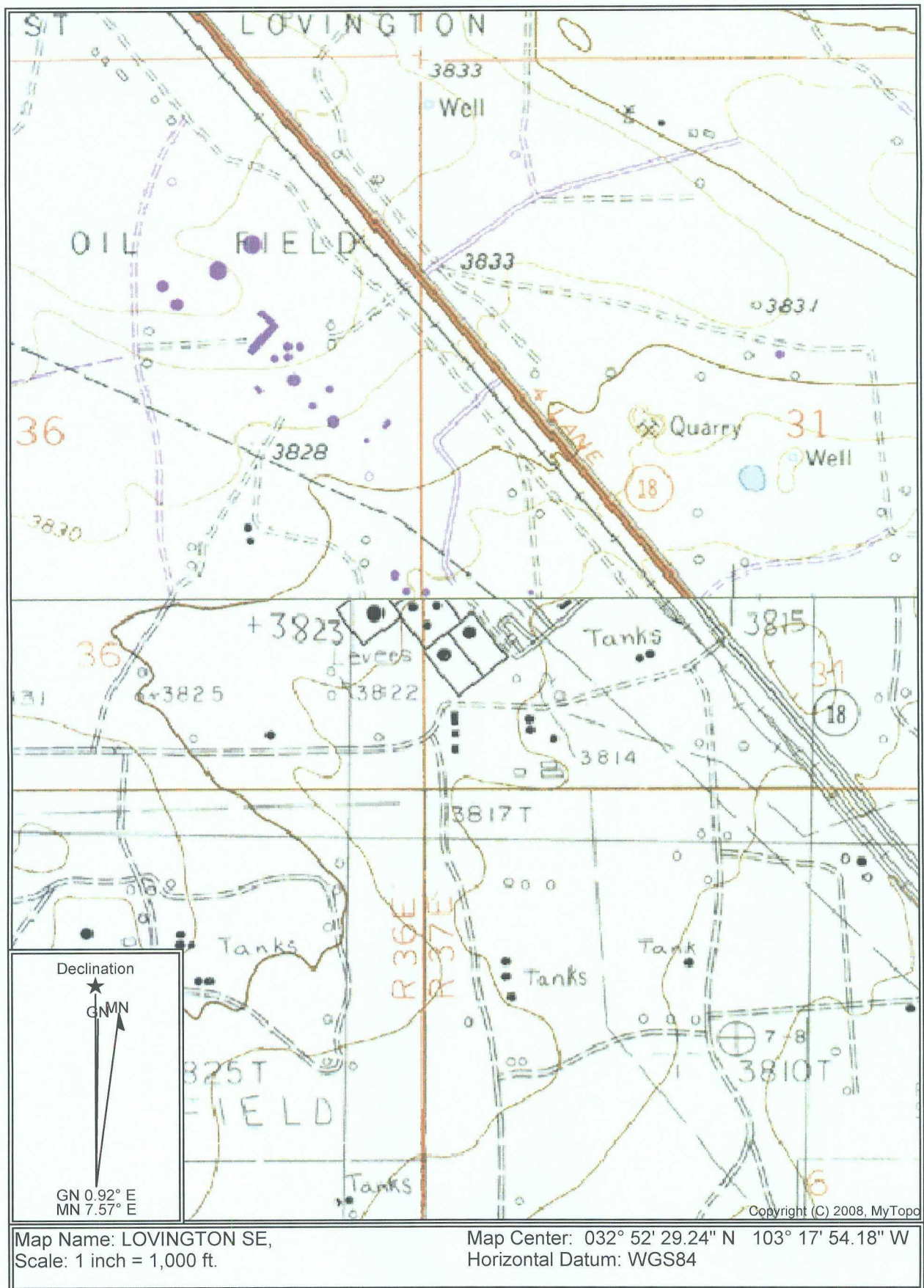
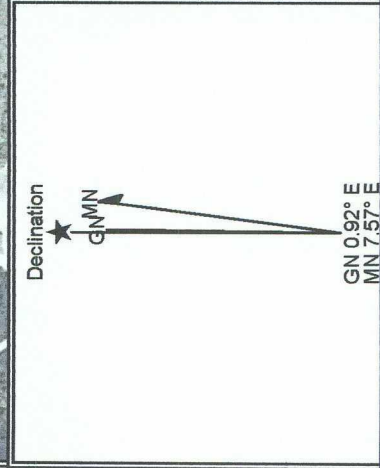


Figure 1. Location Map, Lea Refinery, Navajo Refining Company, Lovington, New Mexico

**Figure 2. 2010 Aerial Photograph, Navajo Refining Company,  
Lea Refinery, Lovington, New Mexico**





Map Name: SE LOVINGTON, NM  
Scale: 1 inch = 500 ft.

Map Center: 032.8773084° N 103.2968117° W  
Horizontal Datum: WGS84

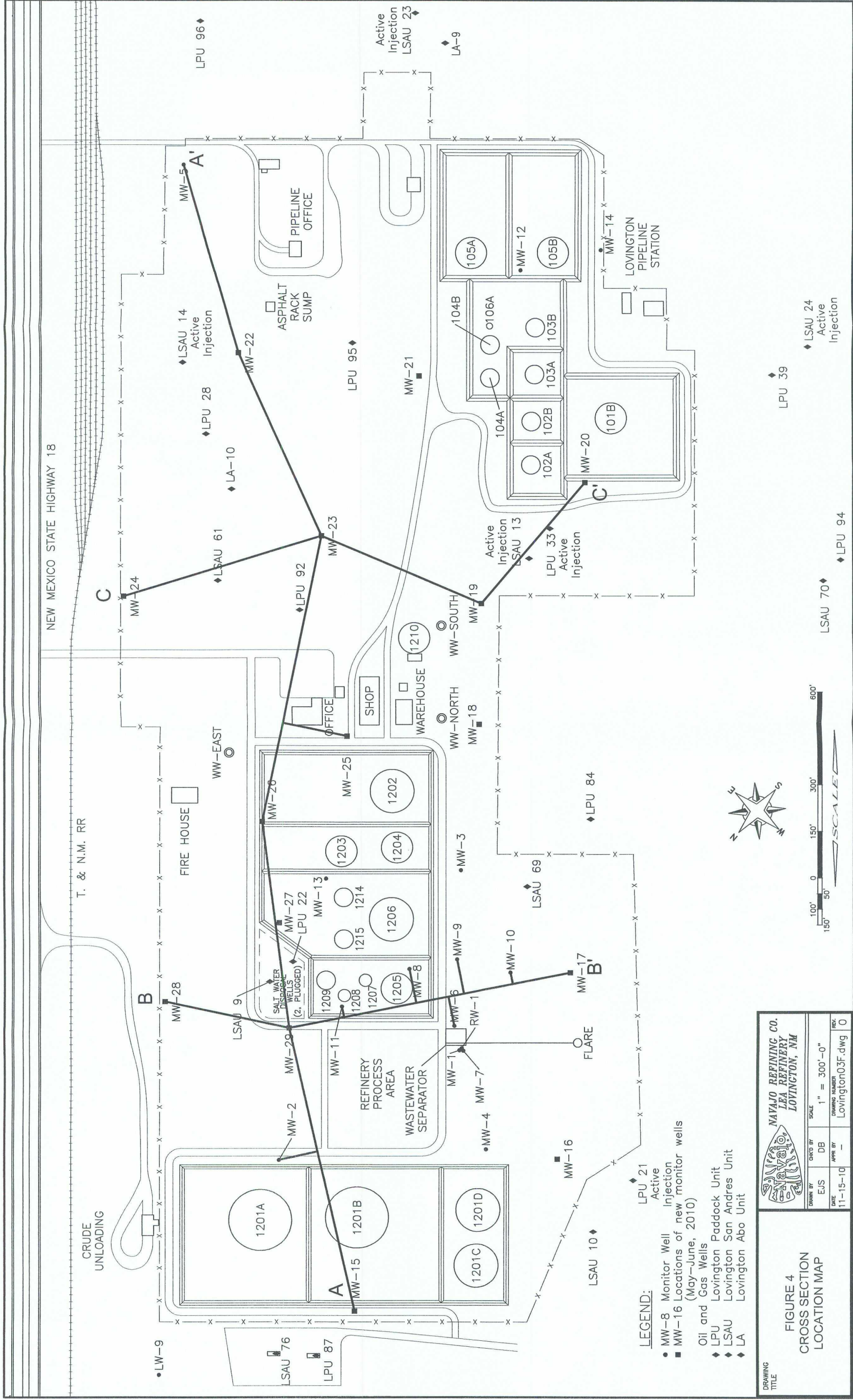


**Figure 3. Site Plan, Navajo Refining Company, Lea Refinery,  
Lovington, New Mexico**



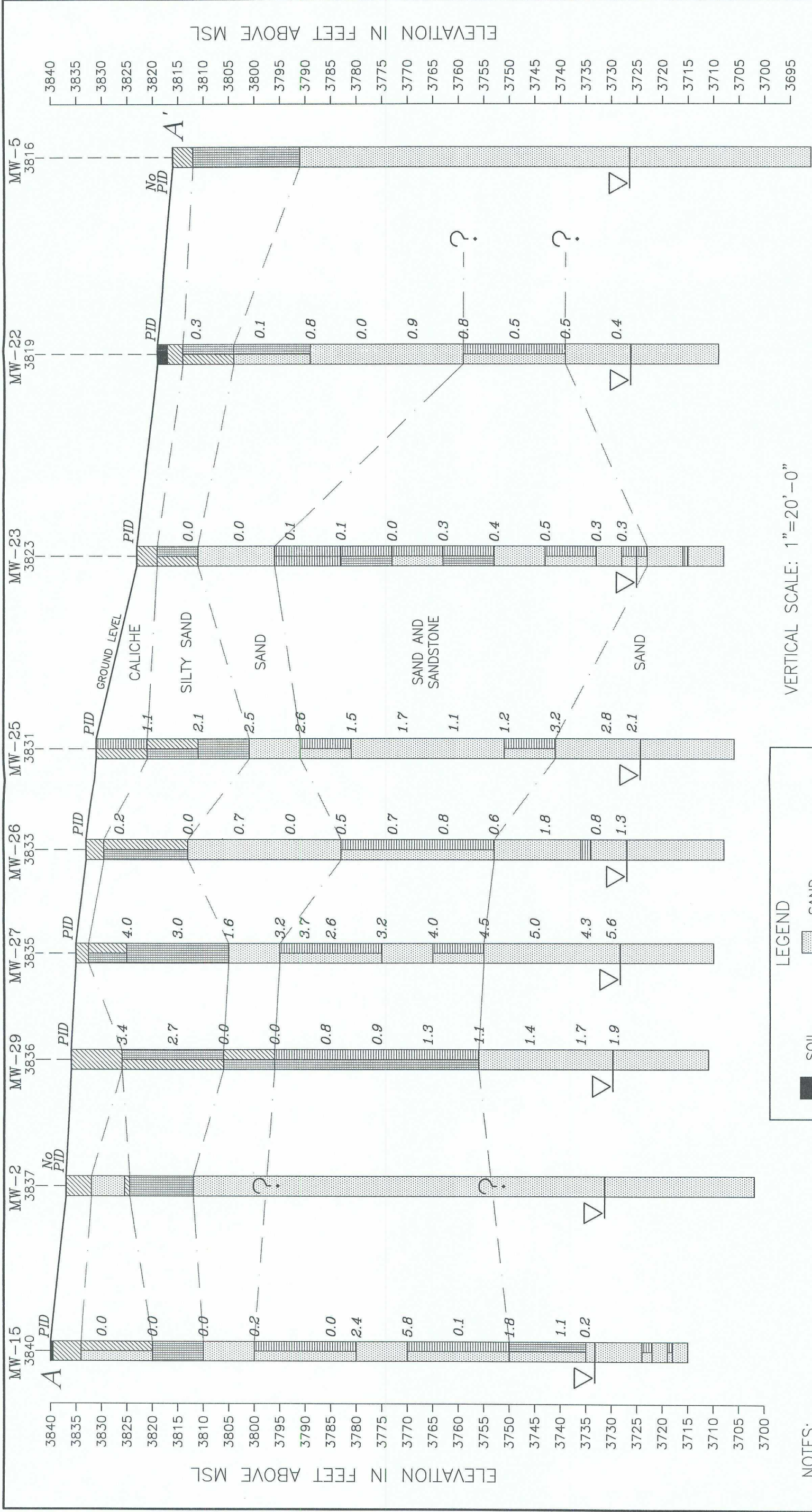


**Figure 4. Cross-Section Location Map, Navajo Refining Company,  
Lea Refinery, Lovington, New Mexico**



**Figure 5. Generalized Cross-Section Map, A-A', Navajo Refining Company,  
Lea Refinery, Lovington, New Mexico**





**Figure 6. Generalized Cross-Section Map, B-B', Navajo Refining Company,  
Lea Refinery, Lovington, New Mexico**





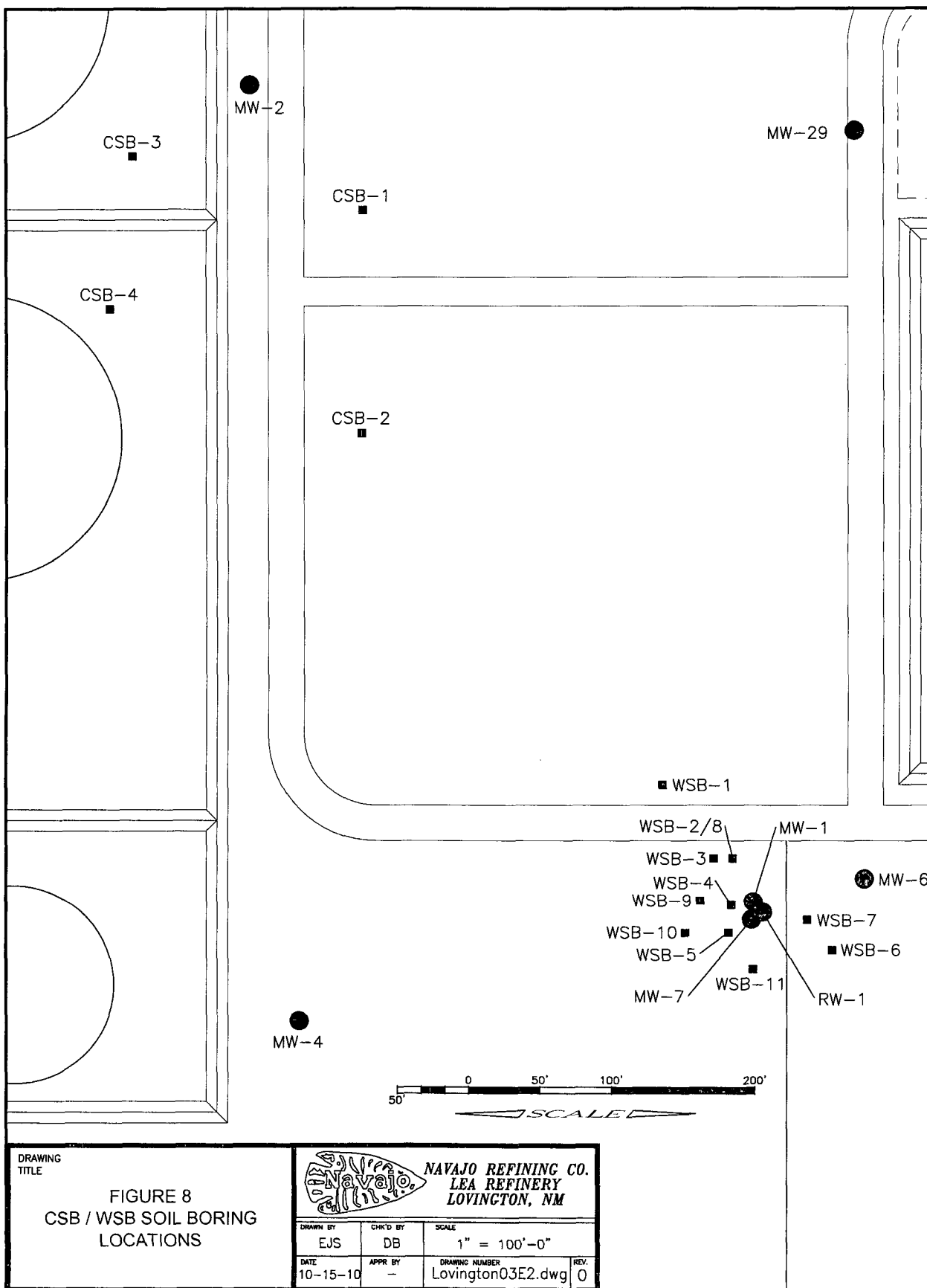
**Figure 7. Generalized Cross-Section Map, C-C', Navajo Refining Company,  
Lea Refinery, Lovington, New Mexico**





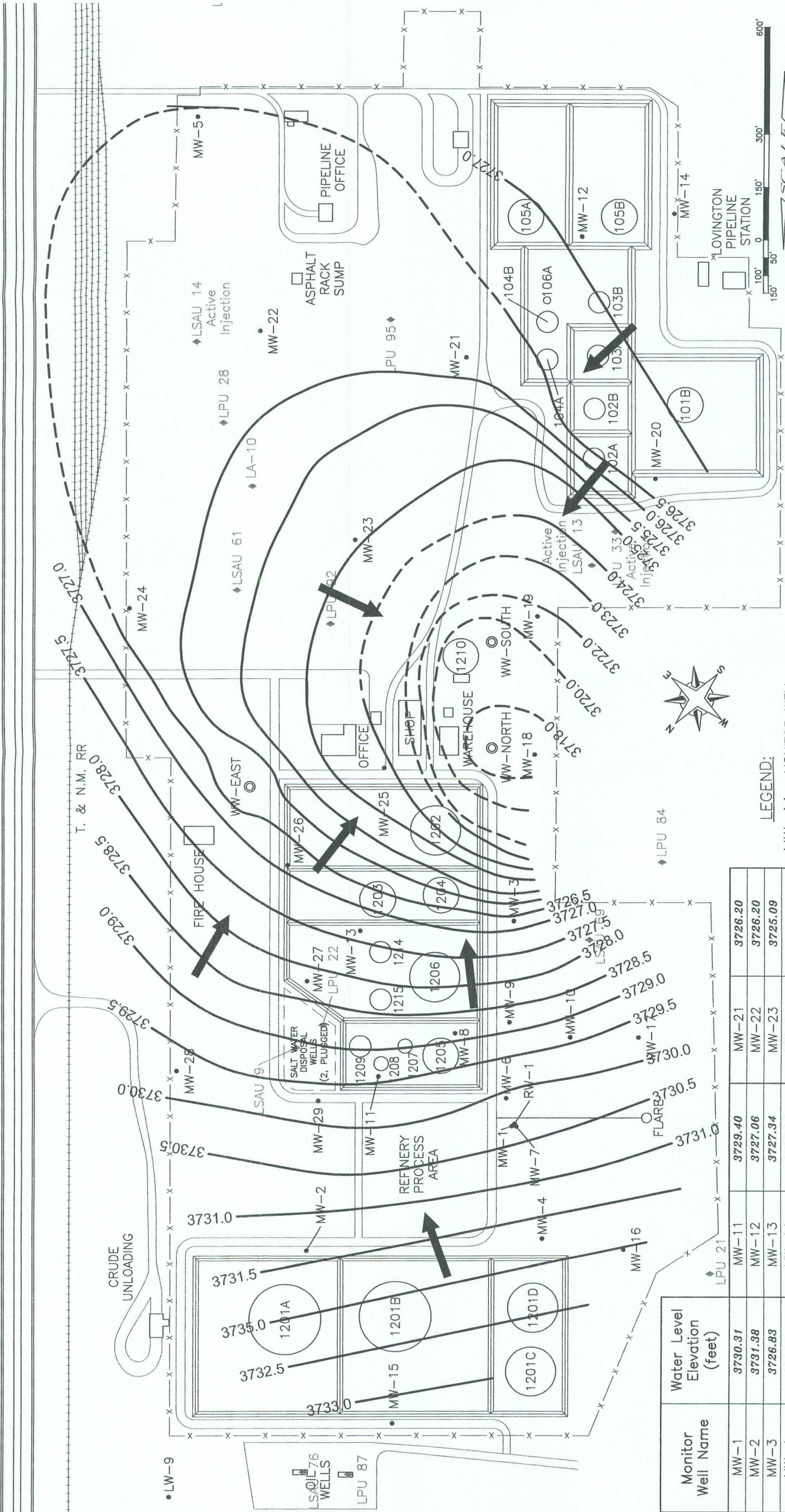


**Figure 8. CSB/WSB Soil Boring Locations, Navajo Refining Company,  
Lea Refinery, Lovington, New Mexico**



**Figure 9. Groundwater Contour Map, August 11, 2010,  
Navajo Refining Company, Lea Refinery, Lovington, New Mexico**

NEW MEXICO STATE HIGHWAY 18



| Monitor Well Name | Water Level Elevation (feet) |
|-------------------|------------------------------|
| MW-1              | 3730.31                      |
| MW-2              | 3731.38                      |
| MW-3              | 3726.83                      |
| MW-4              | 3731.70                      |
| MW-5              | 3726.48                      |
| MW-6              | 3730.16                      |
| MW-7              | 3730.32                      |
| MW-8              | 3728.93                      |
| MW-9              | 3728.85                      |
| MW-10             | 3729.35                      |
| MW-11             | 3729.40                      |
| MW-12             | 3727.06                      |
| MW-13             | 3727.34                      |
| MW-14             | 3727.36                      |
| MW-15             | 3733.25                      |
| MW-16             | 3732.02                      |
| MW-17             | 3729.78                      |
| MW-18             | 3716.51                      |
| MW-19             | 3721.62                      |
| MW-20             | 3726.83                      |
| MW-21             | 3729.40                      |
| MW-22             | 3726.20                      |
| MW-23             | 3725.09                      |
| MW-24             | 3726.46                      |
| MW-25             | 3724.31                      |
| MW-26             | 3726.96                      |
| MW-27             | 3728.27                      |
| MW-28             | 3729.72                      |
| MW-29             | 3729.75                      |
| RW-1              | 3730.30                      |

LEGEND:

- MW-11 • MONITOR WELL
- GROUNDWATER CONTOUR WITH ELEVATION (DASHED WHERE APPROXIMATE) CONTOUR INTERVAL 0.5 FT. UNLESS NOTED OTHERWISE
- GROUNDWATER FLOW DIRECTION
- Oil and Gas Wells
  - LPU
  - LSAU
  - LA
- LOVINGTON PIPELINE STATION
- LOVINGTON PADDOCK UNIT
- LOVINGTON SAN ANDRES UNIT
- LOVINGTON ABO UNIT

NAVAJO REFINING CO.  
LEA REFINERY  
LOVINGTON, NM

FIGURE 9  
GROUNDWATER  
CONTOUR MAP  
AUGUST 11, 2010

|                |                   |
|----------------|-------------------|
| DRAWN BY       | EJS               |
| CHECKED BY     | DB                |
| DATE           | 10-15-10          |
| SCALE          | 1" = 300'-0"      |
| DRAWING NUMBER | Lovington03E2.dwg |
| REV.           | 0                 |

**Figure 10. Benzene Concentration Map, August 2010,  
Navajo Refining Company, Lea Refinery, Lovington, New Mexico**



NEW MEXICO STATE HIGHWAY 18

T. & N.M. RR

CRUDE UNLOADING

FIRE HOUSE

WW-EAST

LSAU 9

LSAU 76  
WELLS

LPU 87

REFINERY PROCESS AREA

OFFICE

SHOP

WAREHOUSE

PIPELINE OFFICE

ASPHALT RACK SUMP

LEGEND:  
MW-11 • MONITOR WELL LPU 21  
0.078 WITH TOTAL BENZENE (mg/L)  
BOLD - EXCEEDS GROUNDWATER STANDARD OF 0.0050 mg/L

ND NOT DETECTED  
REPORTING LIMIT 0.0050 mg/L  
DISSOLVED BENZENE CONCENTRATION (mg/L)  
(DASHED WHERE APPROXIMATE)

GROUNDWATER FLOW DIRECTION

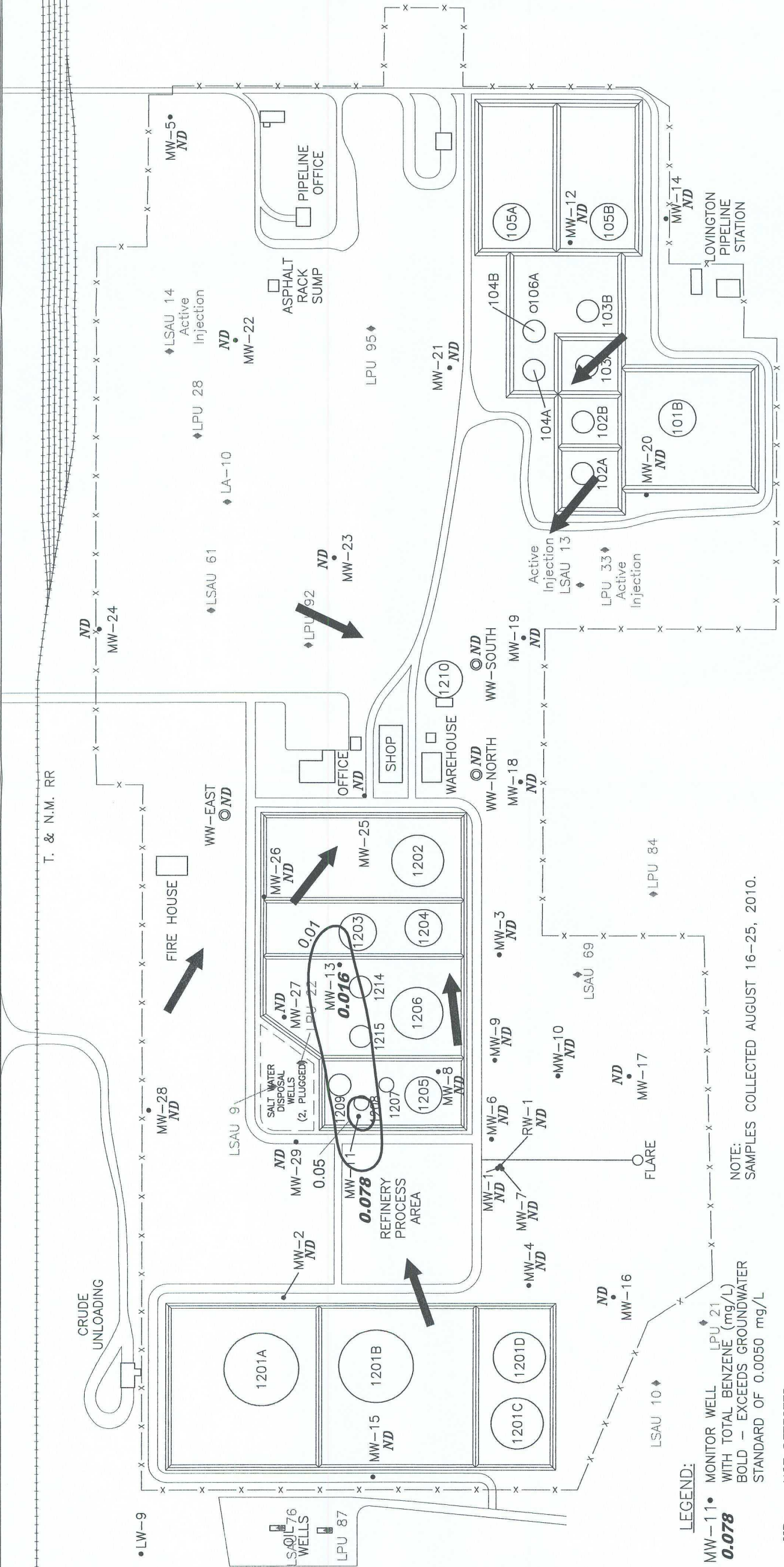
Oil and Gas Wells



NAVAYO REFINING CO.  
LEA REFINERY  
LOVINGTON, NM

FIGURE 10  
BENZENE  
CONCENTRATION MAP  
AUGUST, 2010

|          |          |           |          |         |    |           |              |
|----------|----------|-----------|----------|---------|----|-----------|--------------|
| DATE     | 10-15-10 | APPR BY   | -        | CHKD BY | DB | SCALE     | 1" = 300'-0" |
| DRAWN BY | EJS      | DATE      | 10-15-10 | CHKD BY | DB | SCALE     | 1" = 300'-0" |
| REV.     | 0        | LOVINGTON | 03G2.dwg | REV.    | 0  | LOVINGTON | 03G2.dwg     |



**Figure 11. BTEX, Naphthalene Volatiles Map, August 2010,  
Navajo Refining Company, Lea Refinery, Lovington, New Mexico**



NEW MEXICO STATE HIGHWAY 18

T. & N.M. RR

CRUDE  
UNLOADING

FIRE HOUSE

WW-EAST

LSAU 9

LSAU 76  
WELLS

LPU 87

REFINERY  
PROCESS  
AREA

OFFICE

SHOP

WAREHOUSE

WW-NORTH  
MW-18

WW-SOUTH  
MW-19

1210

FLARE

LSAU 69

LSAU 84

NOTE:  
TOLUENE NOT DETECTED  
IN ANY SAMPLE.

LEGEND:

MW-9 • MONITOR WELL

♦ OIL AND GAS WELLS

→ GROUNDWATER FLOW  
DIRECTION



FIGURE 11  
BTEX, NAPHTHALENE  
VOLATILES MAP  
AUGUST, 2010

| DATE           | APPR BY | DB | SCALE        | REV.              |
|----------------|---------|----|--------------|-------------------|
| 10-15-10       | EJS     | DB | 1" = 300'-0" | 0                 |
| DRAWING NUMBER |         |    |              | Lovington03G2.dwg |

| Well             | Benzene      | Ethyl Benzene | Total Xylenes | Total Naphthalene |
|------------------|--------------|---------------|---------------|-------------------|
| MW-6             | <0.0050      | 0.015         | <0.015        | 0.0034            |
| MW-11            | 0.078        | 0.021         | <0.015        | 0.00036           |
| MW-13            | 0.016        | <0.0050       | <0.015        | <0.00020          |
| RW-1             | <0.0050      | <0.0050       | 0.015         | <0.00020          |
| NM WQCC STANDARD | 0.010 (mg/L) | 0.75 (mg/L)   | 0.062 (mg/L)  | 0.03 (mg/L)       |

**Figure 12. Chloride Concentration Map, August 2010,  
Navajo Refining Company, Lea Refinery, Lovington, New Mexico**



NEW MEXICO STATE HIGHWAY 18

T. & N.M. RR

CRUDE  
UNLOADING

FIRE HOUSE

PIPELINE  
OFFICE

WELLS  
76  
87

REFINERY  
PROCESS  
AREA

WAREHOUSE

SHOP

SALT WATER  
DISPOSAL  
WELLS  
(2 PLUGGED)

ASPHALT  
RACK  
SUMP

LEGEND:

MW-13•  
**390**  
WITH TOTAL CHLORIDE (mg/L)  
BOLD - EXCEEDS GROUNDWATER  
STANDARD OF 250 mg/L

300  
CHLORIDE CONCENTRATION (mg/L)  
(DASHED WHERE APPROXIMATE)  
CONTOUR INTERVAL 100 mg/L  
UNLESS NOTED OTHERWISE

GROUNDWATER FLOW DIRECTION

◆ OIL AND GAS WELLS

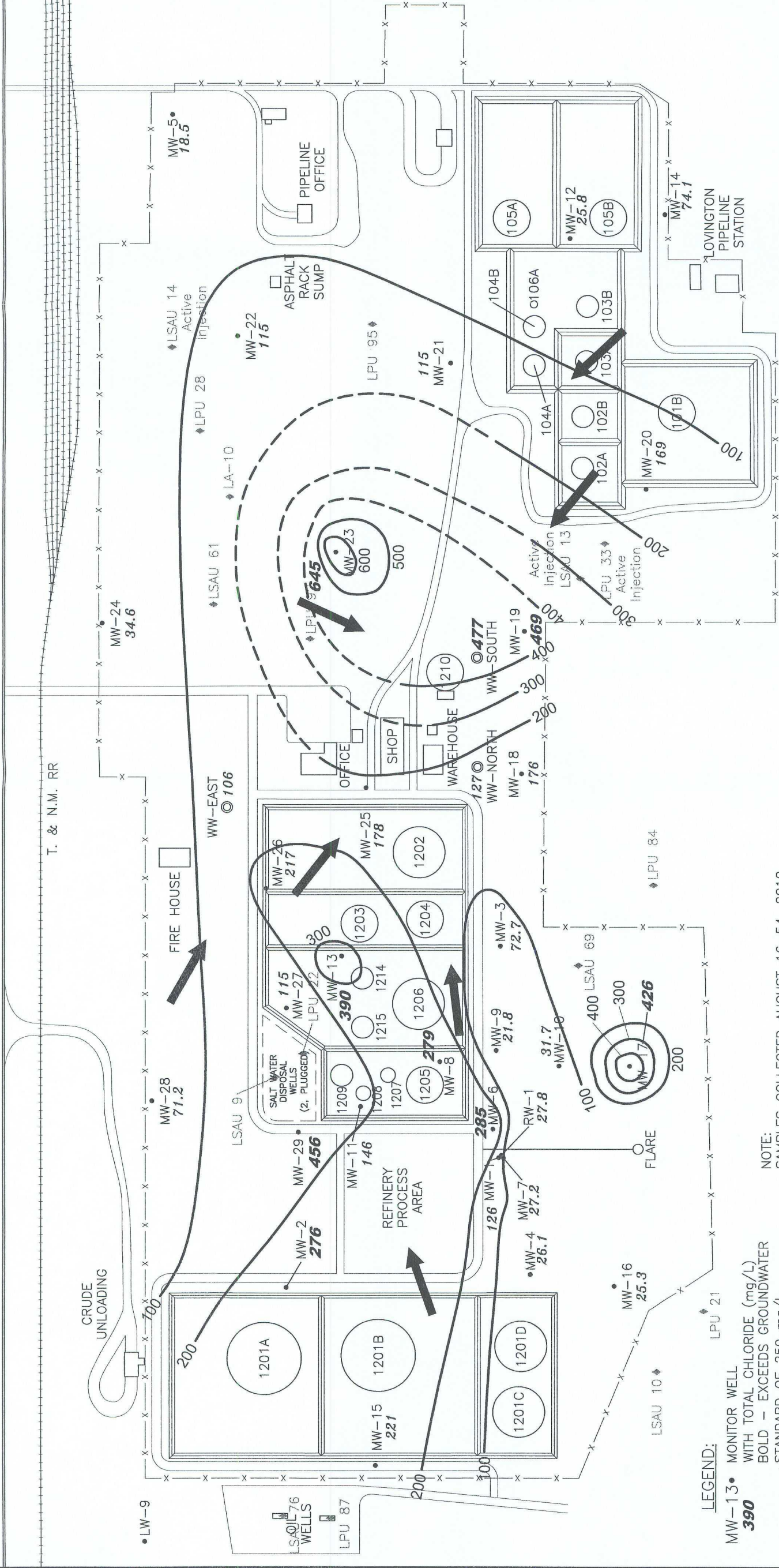
NOTE:  
SAMPLES COLLECTED AUGUST 16-54, 2010



FIGURE 12  
CHLORIDE  
CONCENTRATION MAP  
AUGUST, 2010

NAVAJO REFINING CO.  
LEA REFINERY  
LOVINGTON, NM

|          |          |             |    |                |                   |
|----------|----------|-------------|----|----------------|-------------------|
| DRAWN BY | EJS      | CHECKED BY  | DB | SCALE          | 1" = 300'-0"      |
| DATE     | 10-15-10 | APPROVED BY | -  | DRAWING NUMBER | Lovington03G2.dwg |
| REV.     | 0        |             |    |                |                   |



**Figure 13. Total Dissolved Solids Concentration Map, August 2010,  
Navajo Refining Company, Lea Refinery, Lovington, New Mexico**



NEW MEXICO STATE HIGHWAY 18

T. & N.M. RR

CRUDE UNLOADING

FIRE HOUSE

WELLS

REFINERY PROCESS AREA

WAREHOUSE

SHOP

OFFICE

ASPHALT RACK SUMP

PIPELINE OFFICE

LEGEND:  
MW-13 • MONITOR WELL WITH  
1720 TOTAL DISSOLVED SOLIDS  
CONCENTRATION (mg/L)  
BOLD - EXCEEDS GROUNDWATER  
STANDARD OF 1000 mg/L

300  
TOTAL DISSOLVED SOLIDS  
CONCENTRATION (mg/L)  
(DASHED WHERE APPROXIMATE)  
CONTOUR INTERVAL 300mg/L  
UNLESS OTHERWISE SHOWN

GROUNDWATER FLOW DIRECTION

Oil and Gas Wells

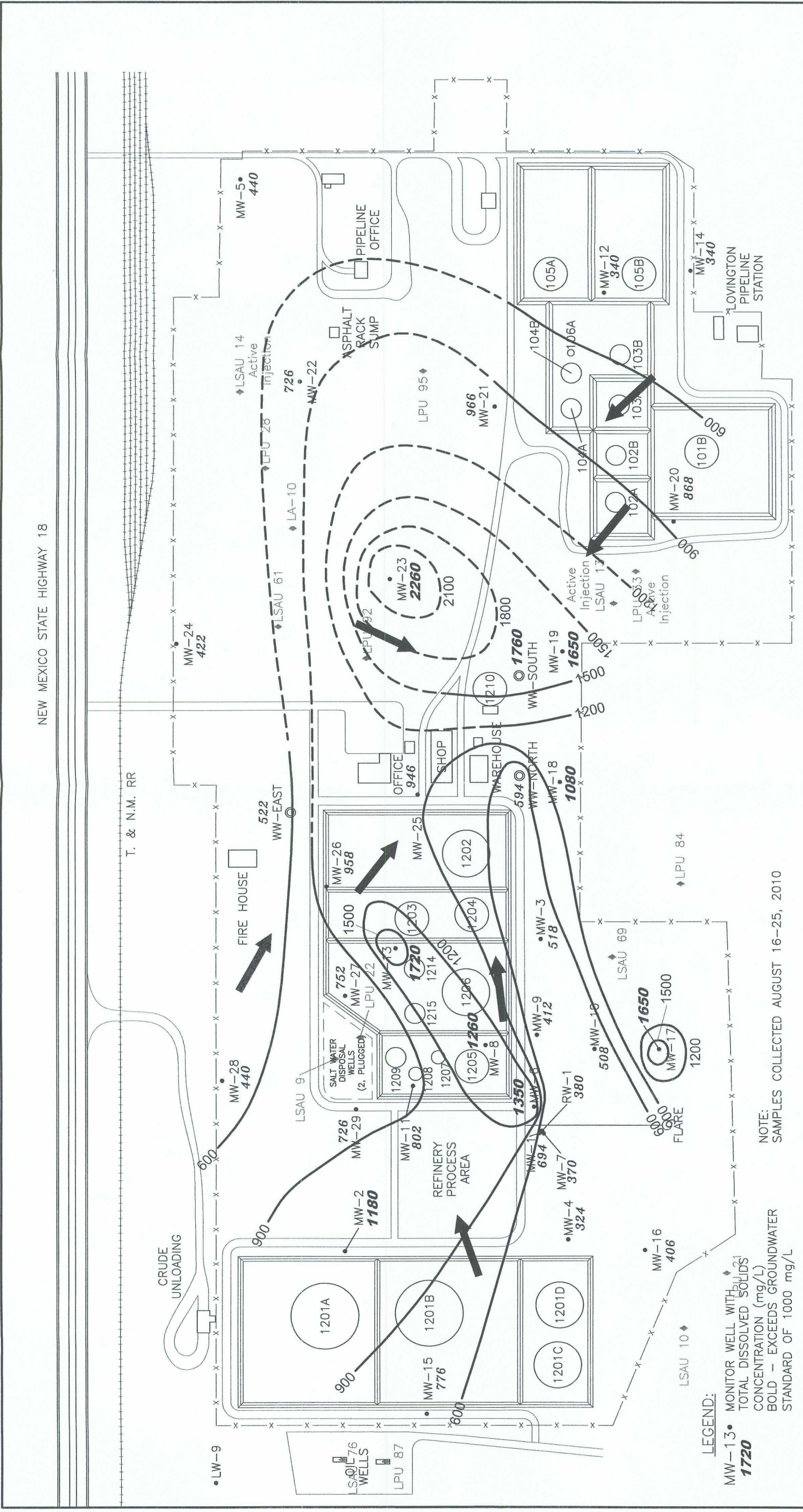


NAVJO REFINING CO.  
LEA REFINERY  
LOVINGTON, NM

FIGURE 13  
TOTAL DISSOLVED SOLIDS  
CONCENTRATION MAP  
AUGUST, 2010

DRAWING  
TITLE

|          |          |         |   |            |              |                |                   |
|----------|----------|---------|---|------------|--------------|----------------|-------------------|
| DATE     | 10-15-10 | APPR BY | - | SCALE      | 1" = 300'-0" | REV.           | 0                 |
| DRAWN BY | EJS      | DB      | - | CHECKED BY | -            | DRAWING NUMBER | Lovington03G2.dwg |



**Figure 14. Fluoride Concentration Map, August 2010,  
Navajo Refining Company, Lea Refinery, Lovington, New Mexico**



NEW MEXICO STATE HIGHWAY 18

T. & N.M. RR

CRUDE  
UNLOADING

FIRE HOUSE

1.00  
WW-EAST

LSAU 9

MW-28  
1.66

MW-2

0.824

MW-29

0.753

MW-11

0.616

MW-13

0.278

MW-26

0.484

MW-27

0.644

MW-15

0.921

MW-16

0.930

MW-17

0.517

MW-18

0.456

MW-19

0.536

MW-20

0.570

MW-21

0.250

MW-22

0.552

MW-23

0.782

MW-24

2.31

MW-25

0.484

MW-26

0.644

MW-27

0.278

MW-28

1.66

MW-29

0.753

MW-30

0.824

MW-31

0.616

MW-32

0.278

MW-33

0.484

MW-34

0.644

MW-35

0.278

MW-36

0.484

MW-37

0.644

MW-38

0.278

MW-39

0.484

MW-40

0.644

MW-41

0.278

MW-42

0.484

MW-43

0.644

MW-44

0.278

MW-45

0.484

MW-46

0.644

MW-47

0.278

MW-48

0.484

MW-49

0.644

MW-50

0.278

MW-51

0.484

MW-52

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MW-53

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MW-54

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MW-55

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MW-56

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MW-57

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MW-58

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MW-59

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MW-60

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MW-61

0.644

MW-62

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MW-63

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MW-64

0.644

MW-65

0.278

MW-66

0.484

MW-67

0.644

MW-68

0.278

MW-69

0.484

MW-70

0.644

MW-71

0.278

MW-72

0.484

MW-73

0.644

MW-74

0.278

MW-75

0.484

MW-76

0.644

MW-77

0.278

MW-78

0.484

MW-79

0.644

MW-80

0.278

MW-81

0.484

MW-82

0.644

MW-83

0.278

MW-84

0.484

MW-85

0.644

MW-86

0.278

MW-87

0.484

MW-88

0.644

MW-89

0.278

MW-90

0.484

MW-91

0.644

MW-92

0.278

MW-93

0.484

MW-94

0.644

MW-95

0.278

MW-96

0.484

MW-97

0.644

MW-98

0.278

MW-99

0.484

MW-100

0.644

MW-101

0.278

MW-102

0.484

MW-103

0.644

MW-104

0.278

MW-105

0.484

MW-106

0.644

MW-107

0.278

MW-108

0.484

MW-109

0.644

MW-110

0.278

MW-111

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MW-112

0.644

MW-113

0.278

MW-114

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MW-115

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MW-116

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MW-117

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MW-118

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MW-119

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MW-121

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MW-123

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MW-125

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MW-126

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MW-127

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MW-130

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MW-131

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MW-133

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MW-134

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MW-135

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MW-136

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MW-137

0.278

MW-138

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MW-139

0.644

MW-140

0.278

MW-141

0.484

MW-142

0.644

MW-143

0.278

MW-144

0.484

MW-145

0.644

MW-146

0.278

MW-147

0.484

MW-148

0.644

MW-149

0.278

MW-150

0.484

MW-151

0.644

MW-152

0.278

MW-153

0.484

MW-154

0.644

MW-155

0.278

MW-156

0.484

MW-157

0.644

MW-158

0.278

MW-159

0.484

MW-160

0.644

MW-161

0.278



**Figure 15. Iron and Manganese Concentration Map, August 2010,  
Navajo Refining Company, Lea Refinery, Lovington, New Mexico**

NEW MEXICO STATE HIGHWAY 18

T. & N.M. RR

CRUDE UNLOADING

FIRE HOUSE

PIPELINE OFFICE

ASPHALT RACK SUMP

OFFICE

SHOP

WAREHOUSE

LEGEND:

MW-11 • MONITOR WELL WITH IRON(mg/L)/MANGANESE(mg/L)  
**<0.347/0.571**  
IRON 1.0 mg/L  
MANGANESE 0.20 mg/L

◆ OIL AND GAS WELLS  
➔ GROUNDWATER FLOW DIRECTION

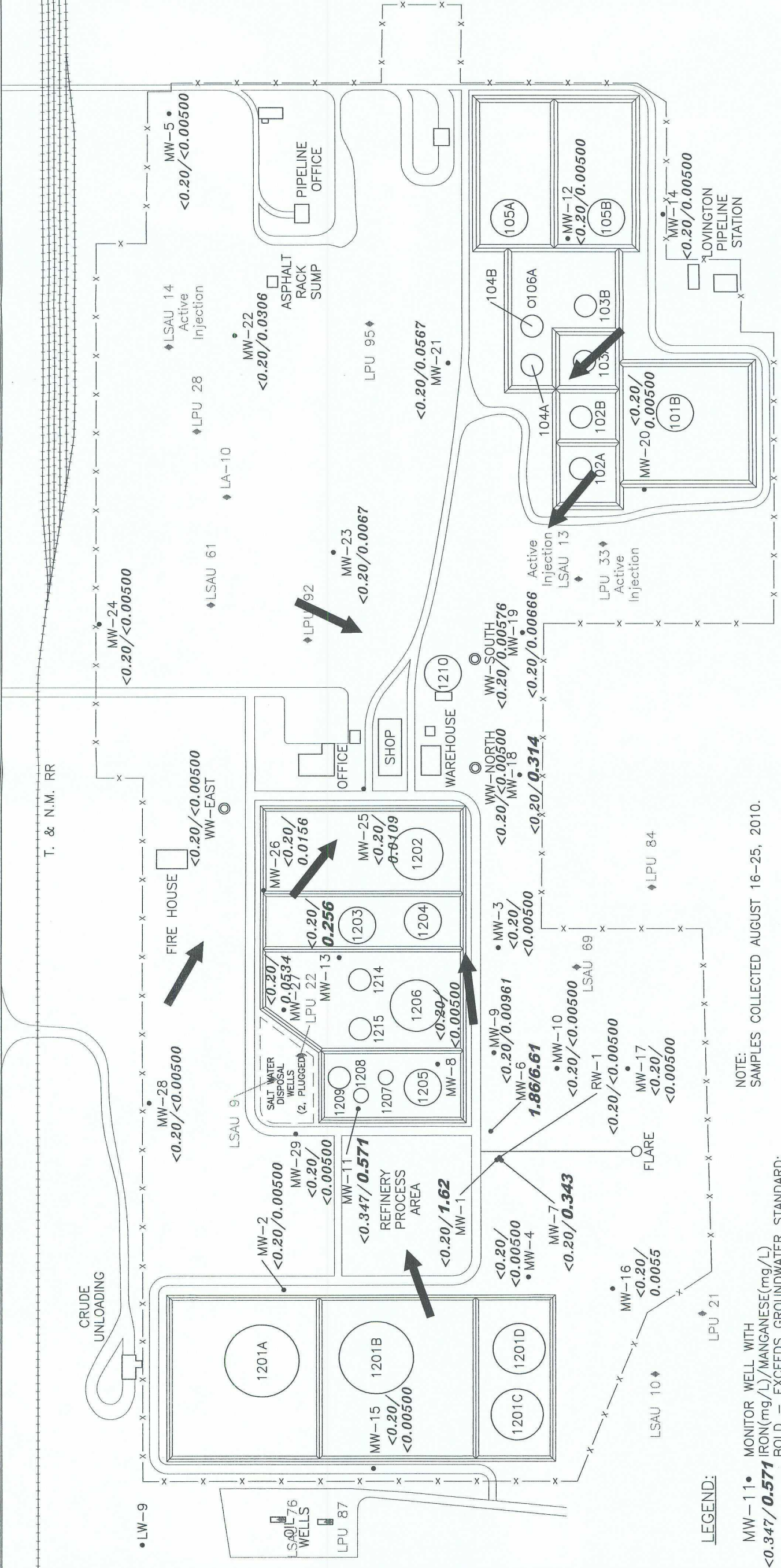


NAVAYO REFINING CO.  
LEA REFINERY  
LOVINGTON, NM

FIGURE 15  
IRON & MANGANESE  
CONCENTRATION MAP  
AUGUST, 2010

DRAWING  
TITLE

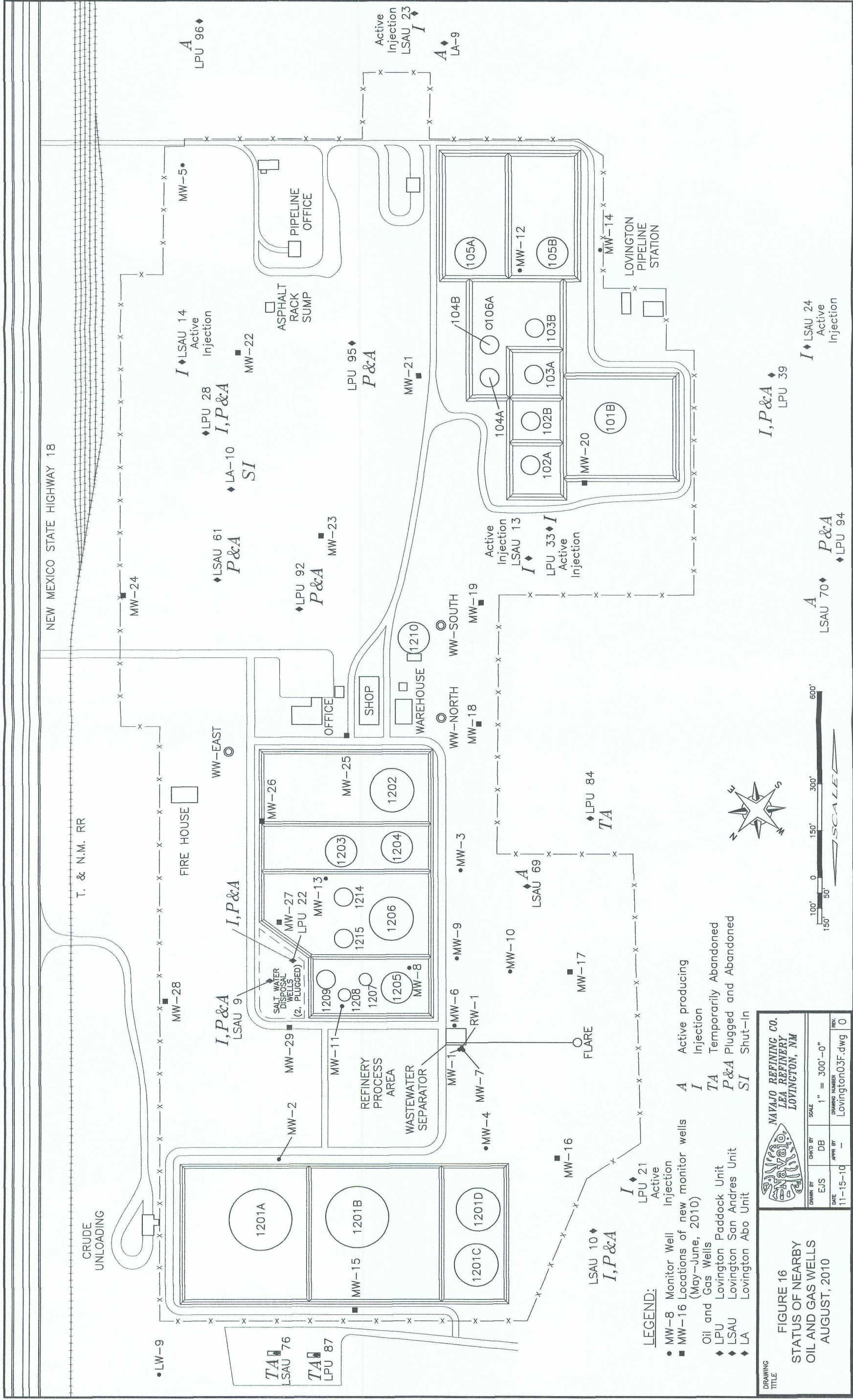
|          |          |             |    |                |                   |
|----------|----------|-------------|----|----------------|-------------------|
| DRAWN BY | EJS      | CHECKED BY  | DB | SCALE          | 1" = 200'-0"      |
| DATE     | 10-15-10 | APPROVED BY | -  | DRAWING NUMBER | Lovington03G2.dwg |
| REV.     | 0        |             |    |                |                   |



NOTE:  
SAMPLES COLLECTED AUGUST 16-25, 2010.

**Figure 16. Status of Nearby Oil and Gas Wells, November 2010,  
Navajo Refining Company, Lea Refinery, Lovington, New Mexico**





## **19. APPENDICES**

## **Appendix A**

### **Soil Boring Logs, Crude Manifold and Wastewater Separator Areas**



## **Appendix B**

### **New and Existing Monitor Well Lithologic and Completion Logs**

**Appendix C**  
**Report of Professional Survey of Monitor Wells, July 2010,**  
**Navajo Refining Company, Lea Refinery**

**Environmental Status Report**  
**Volume 2, Copies of Laboratory Analytical Reports**

**Navajo Refining Company, Lea Refinery**  
**Lovington, New Mexico**

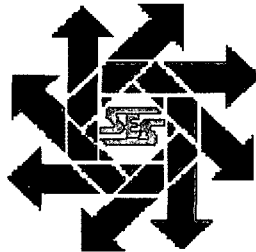
November 15, 2010

**Prepared for:**



**Navajo Refining Company**  
**501 East Main Street**  
**Artesia, New Mexico 88210**

***By:***



***Safety & Environmental Solutions, Inc.***  
***703 E. Clinton***  
***Hobbs, New Mexico 88240***  
***(575) 397-0510***

## **Appendix D**

### **Copies of Soil Boring Analytical Reports**

# ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



## Environmental Division

18-Jun-2010

Darrell Moore  
Navajo Refining Company  
PO Box 159  
Artesia, NM 88211

Tel: (575) 748-6733  
Fax: (575) 746-5421

Re: Lea Refining Soil Borings

Work Order: 1006150

Dear Darrell,

ALS Laboratory Group received 35 samples on 04-Jun-2010 08:55 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 61.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

*JayLynn F Thibault*

Electronically approved by: Glenda H. Ramos

JayLynn F Thibault  
Project Manager



Certificate No: T104704231-09A-TX

## ALS Group USA, Corp.

Part of the **ALS Laboratory Group**  
10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

[www.alsglobal.com](http://www.alsglobal.com) [www.elabi.com](http://www.elabi.com)

A Campbell Brothers Limited Company

**Client:** Navajo Refining Company  
**Project:** Lea Refining Soil Borings  
**Work Order:** 1006150

**Work Order Sample Summary**

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1006150-01         | CSB-1 1-2'              | Soil          |                   | 6/2/2010 14:40         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-02         | CSB-1 10'               | Soil          |                   | 6/2/2010 14:50         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-03         | CSB-1 20'               | Soil          |                   | 6/2/2010 15:00         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-04         | CSB-1 30'               | Soil          |                   | 6/2/2010 15:05         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-05         | CSB-1 40'               | Soil          |                   | 6/2/2010 15:10         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-06         | CSB-1 50'               | Soil          |                   | 6/2/2010 15:20         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-07         | CSB-1 60'               | Soil          |                   | 6/2/2010 15:50         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-08         | CSB-1 70'               | Soil          |                   | 6/2/2010 16:05         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-09         | CSB-1 80'               | Soil          |                   | 6/2/2010 16:15         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-10         | CSB-1 90'               | Soil          |                   | 6/2/2010 16:30         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-11         | CSB-1 100'              | Soil          |                   | 6/2/2010 16:30         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-12         | CSB-1 110'              | Soil          |                   | 6/2/2010 16:40         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-13         | CSB-2 10'               | Soil          |                   | 6/3/2010 07:45         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-14         | CSB-2 20'               | Soil          |                   | 6/3/2010 08:10         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-15         | CSB-2 30'               | Soil          |                   | 6/3/2010 08:20         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-16         | CSB-2 40'               | Soil          |                   | 6/3/2010 08:25         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-17         | CSB-2 50'               | Soil          |                   | 6/3/2010 08:35         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-18         | CSB-2 60'               | Soil          |                   | 6/3/2010 08:45         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-19         | CSB-2 70'               | Soil          |                   | 6/3/2010 08:50         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-20         | CSB-2 80'               | Soil          |                   | 6/3/2010 09:10         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-21         | CSB-2 90'               | Soil          |                   | 6/3/2010 09:20         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-22         | CSB-2 100'              | Soil          |                   | 6/3/2010 09:30         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-23         | CSB-2 110'              | Soil          |                   | 6/3/2010 09:40         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-24         | CSB-3 10'               | Soil          |                   | 6/3/2010 13:10         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-25         | CSB-3 20'               | Soil          |                   | 6/3/2010 13:20         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-26         | CSB-3 30'               | Soil          |                   | 6/3/2010 13:30         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-27         | CSB-3 40'               | Soil          |                   | 6/3/2010 13:40         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-28         | CSB-3 50'               | Soil          |                   | 6/3/2010 13:45         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-29         | CSB-3 60'               | Soil          |                   | 6/3/2010 13:55         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-30         | CSB-3 70'               | Soil          |                   | 6/3/2010 14:00         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-32         | CSB-3 80'               | Soil          |                   | 6/3/2010 14:10         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-33         | CSB-3 90'               | Soil          |                   | 6/3/2010 14:20         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-34         | CSB-3 100'              | Soil          |                   | 6/3/2010 14:30         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-35         | CSB-3 110'              | Soil          |                   | 6/3/2010 14:40         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-36         | Trip Blank 051710-27    | Water         |                   | 6/3/2010               | 6/4/2010 08:55       | <input type="checkbox"/> |



**Environmental Status Report  
Soil Boring and Well Completion Logs**

**Navajo Refining Company, Lea Refinery  
Lovington, New Mexico**

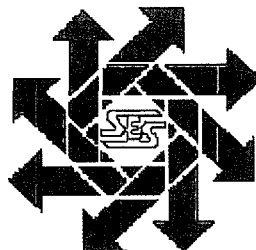
November 15, 2010

**Prepared for:**



**Navajo Refining Company  
501 East Main Street  
Artesia, New Mexico 88210**

***By:***



***Safety & Environmental Solutions, Inc.  
703 E. Clinton  
Hobbs, New Mexico 88240  
(575) 397-0510***

**Appendix A**  
**Soil Boring Logs, Crude Manifold and Wastewater Separator Areas**



**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING CSB-1

(Page 1 of 2)

CSB-1  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 53.2", W103° 18' 10.2"

Date, Time Started : 06/02/10, 1430  
Date, Time Complete : 06/02/10, 1730  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                      |           |            |             |             |             |                    |                  |
| 0                   | SS          | AR    |         | 0-2 ft. Overburden, includes 20-mil plastic liner and reddish clay (possible drilling mud residue?)              | --        | 1006150-01 | <0.050      | <1.7        | <3.4        | <0.0010            | 208              |
|                     |             | CA    |         | 2-4 ft. CALICHE                                                                                                  |           |            |             |             |             |                    |                  |
| 5                   |             | SP/CA |         | 4-10 ft. SAND and CALICHE, sand very light brown, caliche frags creme color                                      |           |            |             |             |             |                    |                  |
| 10                  | SS          |       |         | 10 ft. SILTY SAND and SANDSTONE, sandstone poorly cemented, poorly consolidated, no H/C staining or odor         | 0.4       | 1006150-02 | <0.050      | <1.7        | <3.4        | <0.0010            | 38.0             |
| 15                  |             | SM/SS |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 20                  | SS          |       |         | 20 ft. SAND, light brown, very fine grained, uniform, slightly damp, no H/C staining or odor                     | 0.4       | 1006150-03 | <0.050      | <1.7        | <3.4        | <0.0010            | 11.5             |
| 25                  |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 30                  | SS          |       |         | 30 ft. SAND, light brown, very fine grained, less uniform, less damp, no H/C staining or odor                    | 0.6       | 1006150-04 | <0.050      | <1.7        | <3.4        | <0.0010            | 11.1             |
| 35                  |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 40                  | SS          |       |         | 40 ft. SAND, light brown, very fine grained, less uniform, less damp, compacted, no H/C staining or odor         | 0.6       | 1006150-05 | <0.050      | <1.7        | <3.4        | <0.0010            | 12.2             |
| 45                  |             | SP    |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 50                  | SS          |       |         | 50 ft. SAND, light brown, very fine grained, dry, no H/C staining or odor                                        | 1.0       | 1006150-06 | <0.050      | <1.7        | <3.4        | <0.0010            | 15.8             |
| 55                  |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 60                  | SS          |       |         | 60 ft. SAND, light brown, very fine grained, dry, minor sandstone/siltstone <5%, no H/C staining or odor         | 0.0       | 1006150-07 | <0.050      | <1.7        | <3.4        | <0.0010            | 15.0             |
| 65                  |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 110 ft. Sampled every 10 ft. to saturation.  
Back filled with 56 bags of bentonite chips, hydrated  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING CSB-1

(Page 2 of 2)

CSB-1  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 53.2", W103° 18' 10.2"

Date, Time Started : 06/02/10, 1430  
Date, Time Complete : 06/02/10, 1730  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                              | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                   |           |            |             |             |             |                    |                  |
| 65                  |             | SP    |         |                                                                                                                                                               |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         | 70 ft. SAND, light brown, very fine grained,<br>slightly damp, sandstone/siltstone <10%, no H/C<br>staining or odor                                           | 0.3       | 1006150-08 | <0.050      | <1.7        | <3.4        | <0.0010            | 14.7             |
| 75                  |             | SP/SS |         |                                                                                                                                                               |           |            |             |             |             |                    |                  |
| 80                  | SS          |       |         | 80 ft. SAND, light brown, very fine grained,<br>slightly damp, compacted, no H/C staining or odor                                                             | 0.2       | 1006150-09 | <0.050      | <1.7        | <3.4        | <0.0010            | 19.0             |
| 85                  |             | SP    |         |                                                                                                                                                               |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, light brown, very fine grained,<br>slightly damp, compacted, small sandstone<br>pieces <1/2 in, well cemented, <10%, no H/C<br>staining or odor  | 0.0       | 1006150-10 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.18             |
| 95                  |             |       |         | 94-96 ft. From driller, "gravels" - likely hard<br>sandstone and/or siltstone                                                                                 |           |            |             |             |             |                    |                  |
| 100                 | SS          | SP/SS |         | 100 ft. SAND, light brown, very fine grained,<br>slightly damp, compacted, small sandstone<br>pieces <1/2 in, well cemented, <10%, no H/C<br>staining or odor | 0.0       | 1006150-11 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.63             |
| 105                 |             |       |         |                                                                                                                                                               |           |            |             |             |             |                    |                  |
| 110                 | SS          | SP    |         | 110 ft. SAND, brown, very fine to fine grained,<br>uniform, H <sub>2</sub> O saturated, no H/C staining or odor                                               | --        | 1006150-12 | <0.050      | <1.7        | <3.4        | <0.0010            | 14.6             |
| 115                 |             |       |         |                                                                                                                                                               |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                                               |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                                               |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                                               |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 110 ft. Sampled every 10 ft. to saturation.  
Back filled with 56 bags of bentonite chips, hydrated  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING CSB-2

(Page 1 of 2)

CSB-2  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 52.2", W103° 18' 11.6"

Date, Time Started : 06/03/10, 0700  
Date, Time Complete : 06/03/10, 1130  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                      | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                                           |           |            |             |             |             |                    |                  |
| 0                   |             | CA    |         | 0-2 ft. CALICHE, hard                                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 5                   |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 10                  | SS          | CA/SM |         | 10 ft. CALICHE and SILTY SAND, sand light brown, very fine grained, no H/C staining or odor                                                                                           | 0.0       | 1006150-13 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.14             |
| 15                  |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 20                  | SS          |       |         | 20 ft. SAND, brown, very fine grained, very moist to wet, uniform, no H/C staining or odor (from Steve Terry, moisture may be from infiltration as that area ponds during heavy rain) | 0.9       | 1006150-14 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.19             |
| 25                  |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 30                  | SS          | SP    |         | 30 ft. SAND, brown, very fine grained, very moist, no H/C staining or odor                                                                                                            | 1.2       | 1006150-15 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.28             |
| 35                  |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 40                  | SS          |       |         | 40 ft. SAND with approx 10% SANDSTONE/SILTSTONE, sand light brown, very fine grained, sandstone/siltstone very well cemented fragments, no H/C staining or odor                       | 0.0       | 1006150-16 | <0.050      | <1.7        | <3.4        | <0.0010            | 8.42             |
| 45                  |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 50                  | SS          | SP/SS |         | 50 ft. SAND and SANDSTONE, sand light brown, very fine grained, sandstone soft, poorly cemented, no H/C staining or odor                                                              | 0.4       | 1006150-17 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.83             |
| 55                  |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 60                  | SS          | SP    |         | 60 ft. SAND, light brown, very fine grained, damp, little or no sandstone, no H/C staining or odor                                                                                    | 1.4       | 1006150-18 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.99             |
| 65                  |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 110 ft. Sampled every 10 ft. to saturation.  
Back filled with 50 bags of bentonite chips, hydrated  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

**LOG OF BORING CSB-2**

(Page 2 of 2)

CSB-2  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 52.2", W103° 18' 11.6"

Date, Time Started : 06/03/10, 0700

Date, Time Complete : 06/03/10, 1130

Hole Diameter : 8 1/4 in.

Drilling Method : Hollow Stem Auger

Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells

Sampling Method : 24-in. Splitspoon with

: downhole hammer

Logged By : David Boyer, PG

Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                             | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                  |           |            |             |             |             |                    |                  |
| 65                  |             | SP    |         |                                                                                                                                              |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         | 70 ft. SAND, light brown, very fine grained, dry,<br>minor SANDSTONE less than 10%, soft, no H/C<br>staining or odor                         | 1.3       | 1006150-19 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.85             |
| 75                  |             |       |         |                                                                                                                                              |           |            |             |             |             |                    |                  |
| 80                  | SS          |       |         | 80 ft. SAND, light brown, very fine grained, dry,<br>with SANDSTONE approx. 10%, medium<br>cementing, white streaks, no H/C staining or odor | 1.4       | 1006150-20 | <0.050      | <1.7        | <3.4        | <0.0010            | 15.1             |
| 85                  |             | SP/SS |         |                                                                                                                                              |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, light brown, very fine to fine<br>grained, damp, soft SANDSTONE lenses, no H/C<br>staining or odor                              | 1.6       | 1006150-21 | <0.050      | <1.7        | <3.4        | <0.0010            | 12.7             |
| 95                  |             |       |         |                                                                                                                                              |           |            |             |             |             |                    |                  |
| 100                 | SS          |       |         | 100 ft. SAND, light brown, very fine grained,<br>slightly moist, no sandstone, no H/C staining or<br>odor                                    | 1.7       | 1006150-22 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.52             |
| 105                 |             | SP    |         |                                                                                                                                              |           |            |             |             |             |                    |                  |
| 110                 | SS          |       |         | 110 ft. SAND, brown, very fine grained, H2O<br>saturated, no sandstone, no H/C staining or odor                                              | --        | 1006150-23 | <0.050      | <1.7        | <3.4        | <0.0010            | 22.1             |
| 115                 |             |       |         |                                                                                                                                              |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                              |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                              |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                              |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Back filled with 50 bags of bentonite chips, hydrated

H/C - Hydrocarbon





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## LOG OF BORING CSB-3

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CSB-3  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 54.5", W103° 18' 10.9"

Date, Time Started : 06/03/10, 1300  
Date, Time Complete : 06/03/10, 1600  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                        | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                             |           |            |             |             |             |                    |                  |
| 0                   |             | CA    |         | 0-2 ft. CALICHE, hard                                                                                                                                                   |           |            |             |             |             |                    |                  |
| 5                   |             | SM/CA |         | 2-9 ft. SAND, SILT, CALICHE/SANDSTONE<br>gravels                                                                                                                        |           |            |             |             |             |                    |                  |
| 10                  | SS          |       |         | 10 ft. SILTY SAND, light brown, very fine<br>grained, with soft SANDSTONE and hard<br>CALICHE fragments                                                                 | 0.1       | 1006150-24 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.12             |
| 15                  |             | SM/SS |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 20                  | SS          |       |         | 20 ft. SAND, light brown, very fine grained,<br>uniform, dry, no sandstone/siltstone, no H/C<br>staining or odor                                                        | 1.7       | 1006150-25 | <0.050      | <1.7        | <3.4        | <0.0010            | 5.65             |
| 25                  |             | SP    |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 30                  | SS          |       |         | 30 ft. SAND, light brown, very fine grained, with<br>frequent sandstone/siltstone (approx. 10%),<br>SANDSTONE very hard, well cemented, dry, no<br>H/C staining or odor | 0.9       | 1006150-26 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.14             |
| 35                  |             |       |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 40                  | SS          |       |         | 40 ft. SAND and SANDSTONE, sand light brown,<br>very fine grained, sandstone soft, poorly<br>cemented, no H/C staining or odor                                          | 1.8       | 1006150-27 | <0.050      | <1.7        | <3.4        | <0.0010            | 10.4             |
| 45                  |             | SP/SS |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 50                  | SS          |       |         | 50 ft. SAND and SILTSTONE, sand light brown,<br>very fine grained, siltstone/sandstone very well<br>cemented, dry, no H/C staining or odor                              | 1.5       | 1006150-28 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.68             |
| 55                  |             | SP/SL |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 60                  | SS          |       |         | 60 ft. SAND, light brown, very fine grained,<br>uniform, compacted, no sandstone/siltstone, dry,<br>no H/C staining or odor                                             | 1.5       | 1006150-29 | <0.050      | <1.7        | <3.4        | <0.0010            | 8.61             |
| 65                  |             | SP    |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 110 ft. Sampled every 10 ft. to saturation.  
Back filled with 55 bags of bentonite chips, hydrated  
H/C - Hydrocarbon



**Safety & Environmental  
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## LOG OF BORING CSB-3

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CSB-3  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 54.5", W103° 18' 10.9"

Date, Time Started : 06/03/10, 1300  
Date, Time Complete : 06/03/10, 1600  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                        | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                                             |           |            |             |             |             |                    |                  |
| 65                  |             | SP    |         |                                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         | 70 ft. SAND and SANDSTONE, sand light brown, very fine grained, sandstone soft, poorly cemented, dry, no H/C staining or odor                                                           | 1.7       | 1006150-30 | <0.050      | <1.7        | <3.4        | <0.0010            | 8.12             |
| 75                  |             |       |         |                                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 80                  | SS          |       |         | 80 ft. SAND and SANDSTONE, sand light brown, very fine grained, sandstone/siltstone hard, 1/4 to 1/2 in. thick lens, very well cemented, dry, no H/C staining or odor                   | 0.8       | 1006150-32 | <0.050      | <1.7        | <3.4        | <0.0010            | 8.34             |
| 85                  |             | SP/SS |         |                                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND with some hard SANDSTONE/SILTSTONE, sand light brown, very fine grained, dry, sandstone/siltstone less than above, approx. 10%, very well cemented, no H/C staining or odor | 0.6       | 1006150-33 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.83             |
| 95                  |             |       |         |                                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 100                 | SS          |       |         | 100 ft. SAND, brown, very fine to fine grained, damp, uniform, no H/C staining or odor                                                                                                  | 0.7       | 1006150-34 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.14             |
| 105                 |             | SP    |         |                                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 110                 | SS          |       |         | 110 ft. SAND, brown, very fine grained, uniform, H2O saturated, one small sandstone piece less than 1/2 in., no H/C staining or odor                                                    | --        | 1006150-35 | <0.050      | <1.7        | <3.4        | <0.0010            | 26.5             |
| 115                 |             |       |         |                                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                                                                         |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 110 ft. Sampled every 10 ft. to saturation.  
Back filled with 55 bags of bentonite chips, hydrated  
H/C - Hydrocarbon



**Safety & Environmental  
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**LOG OF BORING CSB-4**

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CSB-4  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 53.8", W103° 18' 12.3"

Date, Time Started : 06/03/10, 0700  
Date, Time Complete : 06/03/10, 1130  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                                | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                                                     |           |            |             |             |             |                    |                  |
| 0                   |             |       |         | 0-2 ft. Surface contamination, H/C staining and odor                                                                                                                                            |           |            |             |             |             |                    |                  |
| 5                   | SS          | CA    |         | 0-7 ft. CALICHE, hard with minor silty sand                                                                                                                                                     | 47.7      | 1006299-01 | 0.36        | 84          | 98          | 0.0120             | 163              |
| 10                  | SS          | SM/CA |         | 10 ft. SILTY SAND and CALICHE, very light brown, soft, sand very fine grained, possible H/C odor, no H/C staining.                                                                              | 2.5       | 1006299-02 | <0.050      | <1.7        | <3.4        | <0.0010            | 523              |
| 15                  |             |       |         |                                                                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 20                  | SS          | SM/SS |         | 20 ft. SILTY SAND with SANDSTONE, sand very light brown, very fine grained, sandstone/caliche fragments approx 20%, soft, no H/C staining or odor                                               | 7.9       | 1006299-03 | <0.050      | 240         | 320         | <0.0010            | 1,880            |
| 25                  |             |       |         |                                                                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 30                  | SS          |       |         | 27-33 ft. From drillers, "gravels" - likely hard sandstone/siltstone lenses.                                                                                                                    |           |            |             |             |             |                    |                  |
| 35                  |             |       |         | 30 ft. SAND, brown, very fine grained, with approx. 15% SANDSTONE/SILTSTONE, very hard, no H/C staining or odor                                                                                 | 8.5       | 1006299-04 | <0.050      | 19          | 32          | <0.0010            | 1,660            |
| 40                  | SS          |       |         |                                                                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 45                  |             |       |         | 40 ft. SAND, very light brown, very fine grained, silty, with soft unconsolidated, very poorly cemented SANDSTONE, dry, no H/C staining or odor                                                 | 6.9       | 1006299-05 | <0.050      | <1.7        | <3.4        | <0.0010            | 2,190            |
| 50                  | SS          | SP/SS |         |                                                                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 55                  |             |       |         | 50 ft. SAND and SANDSTONE, sand very light brown with white streaks, very fine grained, sandstone/siltstone poorly consolidated, cementing from poor to very hard, dry, no H/C staining or odor | 9.8       | 1006299-06 | <0.050      | <1.7        | <3.4        | <0.0010            | 1,300            |
| 60                  | SS          |       |         |                                                                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 65                  |             |       |         | 60 ft. SAND, light brown, very fine grained, with approx. 5% SANDSTONE/SILTSTONE fragments to 1/2 in., soft to hard cementing, dry, no H/C staining or odor                                     | 3.5       | 1006299-07 | <0.050      | <1.7        | <3.4        | <0.0010            | 1,130            |

**Notes:**

Drilled to 110 ft. Sampled every 10 ft. to saturation.

While pulling augers, H/C odor was noticed on some sand.

Back filled with 58 bags of bentonite chips, well hydrated

Low level BTEX are ethylbenzene and xylenes, no benzene detected. H/C - hydrocarbon



**Safety & Environmental  
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## LOG OF BORING CSB-4

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CSB-4  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 53.8", W103° 18' 12.3"

Date, Time Started : 06/03/10, 0700  
Date, Time Complete : 06/03/10, 1130  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                 | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                      |           |            |             |             |             |                    |                  |
| 65                  |             |       |         |                                                                                                                                                                  |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         | 70 ft. SAND and SANDSTONE, sand light brown, very fine grained, sandstone approx. 10%, fragments, well cemented, no H/C staining or odor                         | 5.5       | 1006299-08 | <0.050      | <1.7        | <3.4        | <0.0010            | 986              |
| 75                  |             | SP/SS |         |                                                                                                                                                                  |           |            |             |             |             |                    |                  |
| 80                  | SS          |       |         | 80 ft. SAND and SANDSTONE, sand light brown, very fine grained, sandstone approx. 15%, fragments to 1/2 in. cementing soft to hard, dry, no H/C staining or odor | 2.3       | 1006299-09 | <0.050      | <1.7        | <3.4        | <0.0010            | 222              |
| 85                  |             |       |         |                                                                                                                                                                  |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, light brown, very fine grained, slightly damp, uniform, less than 5% sandstone/siltstone fragments, no H/C staining or odor                         | 2.6       | 1006299-10 | <0.050      | <1.7        | <3.4        | <0.0010            | 8.43             |
| 95                  |             |       |         |                                                                                                                                                                  |           |            |             |             |             |                    |                  |
| 100                 | SS          | SP    |         | 100 ft. SAND, light brown, very fine grained, slightly moist, uniform, no sandstone fragments, no H/C staining or odor                                           | 1.8       | 1006299-11 | <0.050      | <1.7        | <3.4        | <0.0010            | 5.93             |
| 105                 |             |       |         |                                                                                                                                                                  |           |            |             |             |             |                    |                  |
| 110                 | SS          |       |         | 110 ft. SAND, brown, very fine grained, uniform, H2O saturated, no sandstone fragments, no H/C staining or odor                                                  | --        | 1006299-12 | <0.050      | <1.7        | <3.4        | <0.0010            | 84.1             |
| 115                 |             |       |         |                                                                                                                                                                  |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                                                  |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                                                  |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                                                  |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 110 ft. Sampled every 10 ft. to saturation.  
While pulling augers, H/C odor was noticed on some sand.  
Back filled with 58 bags of bentonite chips, well hydrated  
Low level BTEX are ethylbenzene and xylenes, no benzene detected. H/C - hydrocarbon



**Safety & Environmental  
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## LOG OF BORING WSB-1

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WSB-1  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.9", W103° 18' 12.1"

Date, Time Started : 06/08/10, 0900  
Date, Time Complete : 06/08/10, 1500  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                     |           |            |             |             |             |                    |                  |
| 0                   |             | CA    |         | 0-4 ft. CALICHE                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 5                   |             |       |         |                                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 10                  | SS          | SP/SS |         | 10 ft. SAND with soft SANDSTONE, light brown, dry, no H/C staining or odor                                                                                      | 0.0       | 1006499-01 | <0.050      | <1.7        | <3.4        | <0.0010            | 34.3             |
| 15                  |             |       |         |                                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 20                  | SS          | SM/SS |         | 20 ft. SILTY SAND and SANDSTONE/SILTSTONE, sand light brown, very fine grained, sandstone/siltstone soft, no H/C staining or odor                               | 0.1       | 1006499-02 | <0.050      | <1.7        | <3.4        | <0.0010            | 59.2             |
| 25                  |             |       |         |                                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 30                  | SS          | SP    |         | 30 ft. SAND, reddish-brown, very fine to fine grained, uniform, slightly moist, compact, no sandstone/siltstone, no H/C staining or odor                        | 0.0       | 1006499-03 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.82             |
| 35                  |             |       |         |                                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 40                  | SS          | SM/SS |         | 40 ft. SILTY SAND and SANDSTONE/SILTSTONE, sand light brown, very fine grained, sandstone poorly cemented "cookies", dry, no H/C staining or odor               | 0.4       | 1006499-04 | <0.050      | <1.7        | <3.4        | <0.0010            | 37.0             |
| 45                  |             |       |         |                                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 50                  | SS          | SM/SS |         | 50 ft. SILTY SAND with minor SANDSTONE fragments, sand light brown, very fine grained, dry, sandstone fragments <10%, medium cementing, no H/C staining or odor | 1.5       | 1006499-05 | <0.050      | <1.7        | <3.4        | <0.0010            | 25.4             |
| 55                  |             |       |         |                                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 60                  | SS          | SM    |         | 60 ft. SILTY SAND, light brown, very fine grained, dry, compact, no H/C staining or odor                                                                        | 0.7       | 1006499-06 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.70             |
| 65                  |             |       |         |                                                                                                                                                                 |           |            |             |             |             |                    |                  |

**Notes:**

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Backfilled with 66 bags of bentonite chips, well hydrated

H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING WSB-1

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WSB-1  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.9", W103° 18' 12.1"

Date, Time Started : 06/08/10, 0900

Date, Time Complete : 06/08/10, 1500

Hole Diameter : 8 1/4 in.

Drilling Method : Hollow Stem Auger

Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells

Sampling Method : 24-in. Splitspoon with  
downhole hammer

Logged By : David Boyer, PG

Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                       | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |      |         | DESCRIPTION                                                                                                                                            |           |            |             |             |             |                    |                  |
| 65                  |             |      |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 70                  | SS          |      |         | 70 ft. SAND, light brown, very fine grained, dry, compact, no sandstone/siltstone, no H/C staining or odor                                             | 1.8       | 1006499-07 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 75                  |             |      |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 80                  | SS          |      |         | 80 ft. SAND, light brown, very fine grained, dry, compact, no sandstone/siltstone, no H/C staining or odor                                             | 2.1       | 1006499-08 | <0.050      | <1.7        | <3.4        | <0.0010            | 8.56             |
| 85                  |             |      |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 90                  | SS          | SP   |         | 90 ft. SAND, light brown, very fine grained, dry, sandstone/siltstone fragments <5%, no H/C staining or odor                                           | 2.1       | 1006499-09 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 95                  |             |      |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 100                 | SS          |      |         | 100 ft. SAND, light brown, very fine grained, slightly moist, compact no sandstone/siltstone fragments, no H/C staining or odor                        | 2.3       | 1006499-10 | <0.050      | <1.7        | <3.4        | <0.0010            | 5.74             |
| 105                 |             |      |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 110                 | SS          |      |         | 110 ft. SAND, brown, very fine grained, H2O saturated (barely), occasional (<5%) large sandstone/siltstone fragments to 1 in., no H/C staining or odor | --        | 1006499-11 | <0.050      | <1.7        | <3.4        | <0.0010            | 33.7             |
| 115                 |             |      |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 120                 |             |      |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 125                 |             |      |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 130                 |             |      |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |

### Notes:

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Backfilled with 66 bags of bentonite chips, well hydrated

H/C - Hydrocarbon





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Solutions, Inc.**

## LOG OF BORING WSB-2

(Page 1 of 1)

WSB-2  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.2", W103° 18' 12.2"

Date, Time Started : 06/09/10, 0700  
Date, Time Complete : 06/09/10, 0900  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                               | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 0                   |             |       |         | 0-5 ft. CALICHE and caliche fragments to 5 ft.                                                                                                                 |           |            |             |             |             |                    |                  |
| 5                   |             | CA    |         |                                                                                                                                                                |           |            |             |             |             |                    |                  |
| 10                  | SS          |       |         | 10 ft. SAND, light brown, fine grained, some silt,<br>no sandstone/siltstone, dry, no H/C staining or<br>odor                                                  | 6.4       | 1006499-12 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.21             |
| 15                  |             | SP    |         |                                                                                                                                                                |           |            |             |             |             |                    |                  |
| 20                  | SS          |       |         | 20 ft. SAND, some silt, light brown, fine grained,<br>approx. 10% soft sandstone with occasional<br>harder fragments <1/4 in., dry, no H/C staining or<br>odor | 11.2      | 1006499-13 | <0.050      | 2.2         | <3.4        | <0.0010            | 9.37             |
| 25                  |             | SP/SS |         |                                                                                                                                                                |           |            |             |             |             |                    |                  |
| 30                  | SS          |       |         | 30 ft. SAND, brown, very fine grained, uniform,<br>no sandstone fragments, damp, H/C odor, no<br>staining                                                      | 23.1      | 1006499-14 | 1.5         | 210         | 110         | 0.0130 (E,X)       | 14.0             |
| 35                  |             | SP    |         |                                                                                                                                                                |           |            |             |             |             |                    |                  |
| 40                  | SS          |       |         | 40 ft. SAND, light gray, very fine grained,<br>occasional soft sandstone fragments, H/C<br>staining and strong odor.                                           | 66.8      | 1006499-15 | 4.0         | 810         | 260         | 0.1477 (T,E,X)     | 15.7             |
| 45                  |             |       |         |                                                                                                                                                                |           |            |             |             |             |                    |                  |
| 50                  |             |       |         |                                                                                                                                                                |           |            |             |             |             |                    |                  |

### Notes:

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.  
As per instructions, stopped drilling and plugged hole. No H/C saturation so will reevaluate.  
Back filled with 26 bags of bentonite chips, well hydrated  
Low level BTEX are toluene, ethylbenzene and xylenes, no benzene detected. H/C - hydrocarbon



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## LOG OF BORING WSB-3

(Page 1 of 2)

WSB-3  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.3", W103° 18' 12.3"

Date, Time Started : 06/09/10, 0915

Date, Time Complete : 06/09/10, 1200

Hole Diameter : 8 1/4 in.

Drilling Method : Hollow Stem Auger

Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells

Sampling Method : 24-in. Splitspoon with

downhole hammer

Logged By : David Boyer, PG

Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                  | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 0                   |             | CA    |         | 0-5 ft. CALICHE                                                                                                                                                   |           |            |             |             |             |                    |                  |
| 5                   |             |       |         |                                                                                                                                                                   |           |            |             |             |             |                    |                  |
| 10                  | SS          | SM    |         | 10 ft. SILTY SAND, very light brown, very fine grained, dry, no sandstone/siltstone fragments, no H/C staining or odor                                            | 25.4      | 1006499-16 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 15                  |             |       |         |                                                                                                                                                                   |           |            |             |             |             |                    |                  |
| 20                  | SS          | SM/SS |         | 20 ft. SILTY SAND, very light brown, very fine grained, dry, soft thin sandstone/siltstone "cookie" lenses.                                                       | 36.8      | 1006499-17 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 25                  |             |       |         |                                                                                                                                                                   |           |            |             |             |             |                    |                  |
| 30                  | SS          | SP    |         | 30 ft. SAND, reddish-brown, very fine to fine grained, damp, uniform, compact, no sandstone/siltstone fragments, occasional white streak, no H/C staining or odor | 8.3       | 1006499-18 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 35                  |             |       |         |                                                                                                                                                                   |           |            |             |             |             |                    |                  |
| 40                  | SS          | SM/SS |         | 40 ft. SILTY SAND, light brown, very fine grained, dry, with soft sandstone/siltstone, no H/C staining or odor                                                    | 14.1      | 1006499-19 | <0.050      | <1.7        | 4.2         | <0.0010            | <5.00            |
| 45                  |             |       |         |                                                                                                                                                                   |           |            |             |             |             |                    |                  |
| 50                  | SS          | SP/SS |         | 50 ft. SAND and SANDSTONE, sand light brown, very fine grained, dry, sandstone soft to hard lenses, poor to good consolidation, no H/C staining or odor           | 15.3      | 1006499-20 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.57             |
| 55                  |             |       |         |                                                                                                                                                                   |           |            |             |             |             |                    |                  |
| 60                  | SS          | SP    |         | 60 ft. SAND, light brown, very fine grained, dry, compact, no sandstone/siltstone fragments, no H/C staining or odor                                              | 5.4       | 1006499-21 | <0.050      | <1.7        | <3.4        | <0.0010            | 10.9             |
| 65                  |             |       |         |                                                                                                                                                                   |           |            |             |             |             |                    |                  |

### Notes:

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Back filled with 60 bags of bentonite chips, well hydrated

H/C - Hydrocarbon



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## LOG OF BORING WSB-3

(Page 2 of 2)

WSB-3  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.3", W103° 18' 12.3"

Date, Time Started : 06/09/10, 0915  
Date, Time Complete : 06/09/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                              | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                   |           |            |             |             |             |                    |                  |
| 65                  |             | SP    |         |                                                                                                                                               |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         | 70 ft. SAND and SANDSTONE, sand light brown, very fine grained, dry, sandstone approx. 15%, soft fragments, no H/C staining or odor           | 9.9       | 1006499-22 | <0.050      | <1.7        | <3.4        | <0.0010            | 11.9             |
| 75                  |             | SP/SS |         |                                                                                                                                               |           |            |             |             |             |                    |                  |
| 80                  | SS          |       |         | 80 ft. SAND, light brown, very fine grained, dry, less than 5% soft sandstone fragments, no H/C staining or odor                              | 8.5       | 1006499-23 | <0.050      | <1.7        | <3.4        | <0.0010            | 12.2             |
| 85                  |             |       |         |                                                                                                                                               |           |            |             |             |             |                    |                  |
| 90                  | SS          | SP    |         | 90 ft. SAND, light brown, very fine grained, dry, compact, uniform, no sandstone/siltstone fragments, no H/C staining or odor                 | 18.5      | 1006499-24 | <0.050      | <1.7        | <3.4        | <0.0010            | 43.8             |
| 95                  |             |       |         |                                                                                                                                               |           |            |             |             |             |                    |                  |
| 100                 | SS          |       |         | 100 ft. SAND, light brown, very fine grained, slightly damp at tip, compact, soft sandstone fragments approx. 5%, no H/C staining or odor     | 11.7      | 1006499-25 | <0.050      | <1.7        | <3.4        | <0.0010            | 40.0             |
| 105                 |             | SP/SS |         |                                                                                                                                               |           |            |             |             |             |                    |                  |
| 110                 | SS          | SP    |         | 110 ft. SAND, light brown, very fine grained, compact, H <sub>2</sub> O saturated, <5% sandstone/siltstone fragments, no H/C staining or odor | --        | 1006499-26 | <0.050      | <1.7        | <3.4        | <0.0010            | 13.7             |
| 115                 |             |       |         |                                                                                                                                               |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                               |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                               |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                               |           |            |             |             |             |                    |                  |

**Notes:**

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Back filled with 60 bags of bentonite chips, well hydrated

H/C - Hydrocarbon



**Safety & Environmental  
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**LOG OF BORING WSB-4**

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WSB-4  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.0", W103° 18' 12.5"

Date, Time Started : 06/09/10, 1315  
Date, Time Complete : 06/10/10, 1515  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                                                                           | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                                                                                                |           |            |             |             |             |                    |                  |
| 0                   |             |       |         | 0-5 ft. CALICHE and SAND,                                                                                                                                                                                                                  |           |            |             |             |             |                    |                  |
| 5                   |             | CA/SP |         |                                                                                                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 10                  | SS          |       |         | 10 ft. SAND, light brown, very fine grained,<br>slightly damp, no sandstone/siltstone<br>fragments, no H/C staining or odor                                                                                                                | 8.4       | 1006499-27 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 15                  |             | SP    |         | 15-17 ft. SAND, dark gray, strong H/C odor                                                                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 20                  | SS          |       |         | 20 ft. SILTY SAND, light to dark gray, very fine<br>grained, dry, H/C impacted, strong H/C odor<br>Backfilled with 8 bags bentonite.                                                                                                       | 90.3      | 1006499-28 | 270         | 1,600       | 690         | 17.8 (E,X)         | 5.66             |
| 25                  |             | SM    |         |                                                                                                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 30                  | SS          |       |         | 6/10/10 Re-entered WSB-4 by drilling out<br>bentonite.                                                                                                                                                                                     | 884       | 1006499-42 | 300         | 1,000       | 400         | 51.6 (T,E,X)       | 7.53             |
| 35                  |             | SP    |         | 30 ft. SAND, brown to dark gray, very fine<br>grained, no sandstone fragments, no free liquid<br>(gloves are dry), very strong H/C odor<br>30-40 ft. Color changing back to dark brown.<br>Still strong H/C odor, damp but no free liquid. |           |            |             |             |             |                    |                  |
| 40                  | SS          |       |         | 40 ft. SILTY SAND with<br>SANDSTONE/SILTSTONE, sand light brown,<br>very fine grained, dry, 15-20%<br>sandstone/siltstone, soft to very hard, no<br>staining, strong H/C odor                                                              | 349       | 1006499-43 | 470         | 2,700       | 800         | 30.4 (T,E,X)       | 14.0             |
| 45                  |             |       |         |                                                                                                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 50                  | SS          |       |         | 50 ft. SILTY SAND with<br>SANDSTONE/SILTSTONE, sand light brown,<br>very fine grained, dry, sandstone/siltstone<br>15-20%, soft to very hard, no staining, strong<br>H/C odor                                                              | 262       | 1006499-44 | 340         | 2,600       | 810         | 53.0 (T,E,X)       | 22.6             |
| 55                  |             | SM/SS |         |                                                                                                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 60                  | SS          |       |         | 60 ft. SILTY SAND with<br>SANDSTONE/SILTSTONE, sand light brown,<br>very fine grained, damp, sandstone/siltstone<br>10-15%, soft to very hard, no staining, very<br>strong H/C odor                                                        | 473       | 1006499-45 | 250         | 3,300       | 1,200       | 16.3 (T,E,X)       | 23.2             |
| 65                  |             |       |         |                                                                                                                                                                                                                                            |           |            |             |             |             |                    |                  |

**Notes:**

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Mixed 6 bags QuikGrout, ~45-50 ft. grouted, Back filled remainder with 37 bags of bentonite chips, well hydrated.

BTEX detections are toluene, ethylbenzene and xylenes; no benzene detected. H/C - hydrocarbon



**Safety & Environmental  
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## LOG OF BORING WSB-4

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WSB-4  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.0", W103° 18' 12.5"

Date, Time Started : 06/09/10, 1315

Date, Time Complete : 06/10/10, 1515

Hole Diameter : 8 1/4 in.

Drilling Method : Hollow Stem Auger

Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells

Sampling Method : 24-in. Splitspoon with  
downhole hammer

Logged By : David Boyer, PG

Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample<br>Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                                                                    | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|----------------|-------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |                |       |         | DESCRIPTION                                                                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 65                  |                |       |         |                                                                                                                                                                                                                                     |           |            |             |             |             |                    |                  |
| 70                  | SS             |       |         | 70 ft. SILTY SAND with<br>SANDSTONE/SILTSTONE, sand light brown,<br>very fine grained, damp, sandstone/siltstone<br>fragments to 1 in., soft to very hard, no H/C<br>staining, less H/C odor                                        | 190       | 1006499-46 | 67          | 2,800       | 1,200       | 3.2 (E,X)          | 16.5             |
| 75                  |                |       |         |                                                                                                                                                                                                                                     |           |            |             |             |             |                    |                  |
| 80                  | SS             | SM/SS |         | 80 ft. SILTY SAND with<br>SANDSTONE/SILTSTONE, sand light brown,<br>very fine grained, dry, sandstone/siltstone<br>5-10%, soft to medium hard, no H/C staining,<br>some H/C odor                                                    | 82.3      | 1006499-47 | 150         | 3,500       | 1,100       | 8.85 (T,E,X)       | 27.2             |
| 85                  |                |       |         |                                                                                                                                                                                                                                     |           |            |             |             |             |                    |                  |
| 90                  | SS             |       |         | 90 ft. SILTY SAND and poorly consolidated<br>SANDSTONE/SILTSTONE, sand very light<br>brown, very fine grained, dry,<br>sandstone/siltstone light brown to white,<br>poorly cemented, mostly soft, no H/C staining,<br>some H/C odor | 47.2      | 1006499-48 | 5.1         | 380         | 210         | 0.017 (E,X)        | 11.6             |
| 95                  |                |       |         |                                                                                                                                                                                                                                     |           |            |             |             |             |                    |                  |
| 100                 | SS             | SP    |         | 100 ft. SAND, brown, very fine grained, slightly<br>damp, uniform, compact, no<br>sandstone/siltstone fragments, no H/C staining,<br>slight H/C odor                                                                                | 85.8      | 1006499-49 | <0.050      | 24          | 23          | <0.0010            | 5.71             |
| 105                 |                |       |         |                                                                                                                                                                                                                                     |           |            |             |             |             |                    |                  |
| 110                 | SS             | SM    |         | 110 ft. SILTY SAND, brown, very fine grained,<br>H2O saturated, no H/C staining or sheen,<br>possible H/C odor                                                                                                                      | --        | 1006499-50 | <0.050      | 2.3         | <3.4        | <0.0010            | 9.61             |
| 115                 |                |       |         |                                                                                                                                                                                                                                     |           |            |             |             |             |                    |                  |
| 120                 |                |       |         |                                                                                                                                                                                                                                     |           |            |             |             |             |                    |                  |
| 125                 |                |       |         |                                                                                                                                                                                                                                     |           |            |             |             |             |                    |                  |
| 130                 |                |       |         |                                                                                                                                                                                                                                     |           |            |             |             |             |                    |                  |

### Notes:

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Mixed 6 bags QuikGrout, ~45-50 ft. grouted, Back filled remainder with 37 bags of bentonite chips, well hydrated.

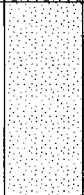
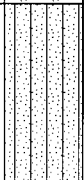
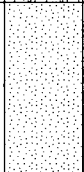
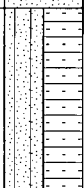
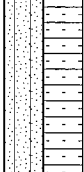
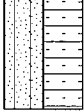
BTEX detections are toluene, ethylbenzene and xylenes, no benzene detected. H/C - hydrocarbon



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## LOG OF BORING WSB-5

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| WSB-5<br>Navajo Refining Company, Lea Refinery<br>Section 36, T16S, R36E |             |       |                                                                                     | Date, Time Started : 06/09/10, 1415                                                                                                                                                             |           | Drilled By : WDC Drilling and Wells      |             |             |             |                    |                  |
|--------------------------------------------------------------------------|-------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------|-------------|-------------|-------------|--------------------|------------------|
| Lea County, New Mexico<br>N32° 52' 48.0", W103° 18' 12.8"                |             |       |                                                                                     | Date, Time Complete : 06/11/10, 1000                                                                                                                                                            |           | Sampling Method : 24-in. Splitspoon with |             |             |             |                    |                  |
|                                                                          |             |       |                                                                                     | Hole Diameter : 8 1/4 in.                                                                                                                                                                       |           | downhole hammer                          |             |             |             |                    |                  |
|                                                                          |             |       |                                                                                     | Drilling Method : Hollow Stem Auger                                                                                                                                                             |           | Logged By : David Boyer, PG              |             |             |             |                    |                  |
|                                                                          |             |       |                                                                                     | Drilling Equipment : CME-85                                                                                                                                                                     |           | Company Rep. : Steve Terry, Navajo       |             |             |             |                    |                  |
| Depth<br>in<br>Feet                                                      | Sample Type | USCS  | GRAPHIC                                                                             | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                                | PID (ppm) | Lab No.                                  | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|                                                                          |             |       |                                                                                     | DESCRIPTION                                                                                                                                                                                     |           |                                          |             |             |             |                    |                  |
| 0                                                                        |             | CA    |    | 0-3 ft. CALICHE                                                                                                                                                                                 |           |                                          |             |             |             |                    |                  |
| 5                                                                        |             |       |                                                                                     |                                                                                                                                                                                                 |           |                                          |             |             |             |                    |                  |
| 10                                                                       | SS          | SP    |    | 10 ft. SAND, light brown, very fine grained,<br>dry, uniform, no sandstone/siltstone fragments,<br>no H/C staining or odor                                                                      | 101       | 1006499-29                               | 5.3         | 190         | 130         | 0.035 (T,X)        | 14.6             |
| 15                                                                       |             |       |                                                                                     | 15-17 ft. Light to dark gray, strong H/C odor                                                                                                                                                   |           |                                          |             |             |             |                    |                  |
| 20                                                                       | SS          | SM    |   | 20 ft. SILTY SAND, light to dark gray, very fine<br>grained, dry, very strong H/C odor<br>Backfill with 9 bags bentonite awaiting possible<br>redrill and deepening.                            | 494       | 1006499-30                               | 140         | 480         | 130         | 19.8 (T,E,X)       | 27.0             |
| 25                                                                       |             |       |                                                                                     |                                                                                                                                                                                                 |           |                                          |             |             |             |                    |                  |
| 30                                                                       | SS          | SP    |  | 6/11/10 onsite 0645 to drill out 20 ft. plug.<br>30 ft. SAND, reddish-brown, very fine grained,<br>H2O damp, uniform, compact, no H/C staining,<br>strong H/C odor                              | 225       | 1006499-51                               | 110         | 2,100       | 810         | 11.95 (T,E,X)      | 7.73             |
| 35                                                                       |             |       |                                                                                     |                                                                                                                                                                                                 |           |                                          |             |             |             |                    |                  |
| 40                                                                       | SS          |       |  | 40 ft. SILTY SAND and<br>SANDSTONE/SILTSTONE, sand light brown,<br>very fine grained, dry, sandstone soft to hard,<br>no H/C staining, strong H/C odor                                          | 350       | 1006499-52                               | 400         | 5,100       | 1,800       | 100.3 (T,E,X)      | 17.2             |
| 45                                                                       |             |       |                                                                                     |                                                                                                                                                                                                 |           |                                          |             |             |             |                    |                  |
| 50                                                                       | SS          | SM/SS |  | 50 ft. SILTY SAND and<br>SANDSTONE/SILTSTONE, sand light brown,<br>very fine grained, slightly damp, minor H/C<br>staining, strong H/C odor, possible minor show<br>H/C saturation (evaporates) | 132       | 1006499-53                               | 610         | 4,800       | 2,000       | 37.4 (T,E,X)       | 23.7             |
| 55                                                                       |             |       |                                                                                     |                                                                                                                                                                                                 |           |                                          |             |             |             |                    |                  |
| 60                                                                       | SS          |       |  | 60 ft. SILTY SAND and<br>SANDSTONE/SILTSTONE, sand light brown,<br>very fine grained, sandstone 10-15%, soft, no<br>H/C staining, H/C odor                                                      | 124       | 1006499-54                               | 0.62        | 430         | 200         | 0.0087 (E,X)       | 15.2             |
| 65                                                                       |             |       |                                                                                     |                                                                                                                                                                                                 |           |                                          |             |             |             |                    |                  |

**Notes:**

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Plugged back with 4 barrels (192 gallons) Quik-grout and 28 bags of bentonite chips, well hydrated.

BTEX detections are toluene, ethylbenzene and xylenes, no benzene detected. H/C - hydrocarbon





**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING WSB-5

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WSB-5  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.0", W103° 18' 12.8"

Date, Time Started : 06/09/10, 1415  
Date, Time Complete : 06/11/10, 1000  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery | DESCRIPTION                                                                                                                                                            | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
| 65                  |             | SM/SS |         |                                                                                                                  |                                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         |                                                                                                                  | 70 ft. SAND, light brown, very fine grained,<br>dry, with minor soft SANDSTONE approx. 5%,<br>no H/C staining, H/C odor                                                | 65.5      | 1006499-55 | <0.050      | 5.0         | <3.4        | <0.0010            | 17.2             |
| 75                  |             | SP/SS |         |                                                                                                                  |                                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 80                  | SS          |       |         |                                                                                                                  | 80 ft. SILTY SAND, light brown, very fine<br>grained, compact, dry, minor soft sandstone<br><5%, no H/C staining, H/C odor                                             | 138       | 1006499-56 | <0.050      | 69          | 35          | <0.0010            | 17.5             |
| 85                  |             | SM    |         |                                                                                                                  |                                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         |                                                                                                                  | 90 ft. SILTY SAND and SANDSTONE, sand light<br>brown, very fine grained, compact, dry, 5-10%<br>sandstone/siltstone fragments to 1/4 in., no H/C<br>staining, H/C odor | 83.5      | 1006499-57 | 20          | 210         | 110         | 0.32 (E,X)         | 26.4             |
| 95                  |             | SM/SS |         |                                                                                                                  |                                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 100                 | SS          |       |         |                                                                                                                  | 100 ft. SAND, light brown, very fine grained,<br>compact, slightly damp, <5%<br>sandstone/siltstone fragments, no H/C staining,<br>some H/C odor                       | 81.8      | 1006499-58 | <0.050      | 93          | 52          | <0.0010            | 14.1             |
| 105                 |             | SP    |         |                                                                                                                  |                                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 110                 | SS          | SP/SS |         |                                                                                                                  | 110 ft. SAND, brown, very fine grained,<br>compact, H2O saturated, approx 5%<br>SANDSTONE/SILTSTONE fragments, no H/C<br>staining or odor                              | --        | 1006499-59 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 115                 |             |       |         |                                                                                                                  |                                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                  |                                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                  |                                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                  |                                                                                                                                                                        |           |            |             |             |             |                    |                  |

**Notes:**

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.  
Drilled to 110 ft. Sampled every 10 ft. to saturation.  
Plugged back with 4 barrels (192 gallons) Quik-grout and 28 bags of bentonite chips, well hydrated.  
BTX detections are toluene, ethylbenzene and xylenes, no benzene detected. H/C - hydrocarbon



**Safety & Environmental  
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**LOG OF BORING WSB-6**

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WSB-6  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 47.4", W103° 18' 12.4"

Date, Time Started : 06/10/10, 0630  
Date, Time Complete : 06/10/10, 1020  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                      | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                           |           |            |             |             |             |                    |                  |
| 0                   |             | CA    |         | 0-2 ft. CALICHE                                                                                                                                       |           |            |             |             |             |                    |                  |
| 10                  | SS          | SM/SS |         | 10 ft. SILTY SAND and SANDSTONE/SILTSTONE, sand light brown, fine grained, sandstone to 1 in., poor to medium cementing, no H/C staining or odor      | 5.7       | 1006499-31 | <0.050      | <1.7        | <3.4        | <0.0010            | 67.3             |
| 20                  | SS          | SM    |         | 20 ft. SILTY SAND, light brown, very fine grained, slightly damp, occasional very soft sandstone, no H/C staining or odor                             | 7.1       | 1006499-32 | <0.050      | <1.7        | <3.4        | <0.0010            | 65.8             |
| 30                  | SS          | SP    |         | 30 ft. SAND, reddish-brown, very fine grained, moist, <5% poorly cemented sandstone/siltstone, no H/C staining or odor                                | 21.0      | 1006499-33 | <0.050      | <1.7        | <3.4        | <0.0010            | 19.1             |
| 40                  | SS          | SM/SS |         | 40 ft. SILTY SAND and soft SANDSTONE/SILTSTONE, sand light brown, very fine grained, dry, sandstone soft to medium cementing, no H/C staining or odor | 7.1       | 1006499-34 | <0.050      | <1.7        | <3.4        | <0.0010            | 42.0             |
| 50                  | SS          | SP    |         | 50 ft. SILTY SAND, light brown, very fine grained, slightly damp, <5% soft sandstone, no H/C staining or odor                                         | 11.5      | 1006499-35 | <0.050      | <1.7        | <3.4        | <0.0010            | 47.9             |
| 60                  | SS          |       |         | 60 ft. SILTY SAND, light brown, very fine grained, slightly damp, no sandstone/siltstone fragments, no H/C staining or odor                           | 6.7       | 1006499-36 | <0.050      | <1.7        | <3.4        | <0.0010            | 58.0             |

**Notes:**

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Back filled with 61 bags of bentonite chips, well hydrated

H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING WSB-6

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WSB-6  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 47.4", W103° 18' 12.4"

Date, Time Started : 06/10/10, 0630  
Date, Time Complete : 06/10/10, 1020  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                   | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 65                  |             | SP    |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         | 70 ft. SAND, light brown, very fine grained, slightly damp, soft sandstone fragments <5%, no H/C staining or odor                                                  | 8.1       | 1006499-37 | <0.050      | <1.7        | <3.4        | <0.0010            | 50.7             |
| 75                  |             | SP    |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 80                  | SS          |       |         | 80 ft. SAND and SANDSTONE/SILTSTONE, sand light brown, very fine grained, dry, 5-10% sandstone/siltstone fragments, soft to medium cement, no H/C staining or odor | 5.1       | 1006499-38 | <0.050      | <1.7        | <3.4        | <0.0010            | 55.2             |
| 85                  |             |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND and SANDSTONE/SILTSTONE, sand light brown, very fine grained, dry, 5-10% sandstone/siltstone fragments, soft to medium cement, no H/C staining or odor | 3.2       | 1006499-39 | <0.050      | <1.7        | <3.4        | <0.0010            | 39.2             |
| 95                  |             | SP/SS |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 100                 | SS          |       |         | 100 ft. SAND and SANDSTONE/SILTSTONE, sand light brown, very fine grained, damp, approx. 5% sandstone/siltstone fragments, soft, no H/C staining or odor           | 3.1       | 1006499-40 | <0.050      | <1.7        | <3.4        | <0.0010            | 35.7             |
| 105                 |             |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 110                 | SS          | SP    |         | 110 ft. SAND, light brown, very fine grained, H <sub>2</sub> O saturated, one soft sandstone/siltstone fragment, 1/4 in., no H/C staining or odor,                 | --        | 1006499-41 | <0.050      | <1.7        | <3.4        | <0.0010            | 26.6             |
| 115                 |             |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |

### Notes:

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Back filled with 61 bags of bentonite chips, well hydrated

H/C - Hydrocarbon



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## LOG OF BORING WSB-7

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| WSB-7<br>Navajo Refining Company, Lea Refinery<br>Section 36, T16S, R36E |             |       |         | Date, Time Started : 06/11/10, 1130                                                                                                                                      |           | Drilled By : WDC Drilling and Wells      |             |             |             |                    |                  |
|--------------------------------------------------------------------------|-------------|-------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------|-------------|-------------|-------------|--------------------|------------------|
| Lea County, New Mexico<br>N32° 52' 47.7", W103° 18' 12.2"                |             |       |         | Date, Time Complete : 06/11/10, 1600                                                                                                                                     |           | Sampling Method : 24-in. Splitspoon with |             |             |             |                    |                  |
|                                                                          |             |       |         | Hole Diameter : 8 1/4 in.                                                                                                                                                |           | downhole hammer                          |             |             |             |                    |                  |
|                                                                          |             |       |         | Drilling Method : Hollow Stem Auger                                                                                                                                      |           | Logged By : David Boyer, PG              |             |             |             |                    |                  |
|                                                                          |             |       |         | Drilling Equipment : CME-85                                                                                                                                              |           | Company Rep. : Steve Terry, Navajo       |             |             |             |                    |                  |
| Depth<br>in<br>Feet                                                      | Sample Type | USCS  | GRAPHIC | Sample Type                                                                                                                                                              | PID (ppm) | Lab No.                                  | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|                                                                          |             |       |         | SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                        |           |                                          |             |             |             |                    |                  |
|                                                                          |             |       |         | DESCRIPTION                                                                                                                                                              |           |                                          |             |             |             |                    |                  |
| 0                                                                        |             |       |         |                                                                                                                                                                          |           |                                          |             |             |             |                    |                  |
| 5                                                                        |             | CA    |         | CALICHE to 7-8 ft.                                                                                                                                                       |           |                                          |             |             |             |                    |                  |
| 10                                                                       | SS          |       |         | 10 ft. SILTY SAND with SANDSTONE, sand light brown, very fine grained, dry, sandstone approx. 10%, soft with several hard fragments, no H/C staining or odor             | 40.8      | 1006499-60                               | <0.050      | <1.7        | <3.4        | <0.0010            | 12.5             |
| 15                                                                       |             |       |         |                                                                                                                                                                          |           |                                          |             |             |             |                    |                  |
| 20                                                                       | SS          | SM/SS |         | 20 ft. SILTY SAND and SANDSTONE/SILTSTONE, sand light brown, very fine grained, dry, sandstone/siltstone soft to well cemented, no H/C staining, possible light H/C odor | 25.7      | 1006499-61                               | <0.050      | <1.7        | <3.4        | <0.0010            | 20.3             |
| 25                                                                       |             |       |         |                                                                                                                                                                          |           |                                          |             |             |             |                    |                  |
| 30                                                                       | SS          |       |         | 30 ft. SAND, light brown, very fine grained, slightly damp, with soft SANDSTONE, no H/C staining, little or no H/C odor                                                  | 45.9      | 1006499-62                               | <0.050      | <1.7        | <3.4        | <0.0010            | 14.0             |
| 35                                                                       |             |       |         |                                                                                                                                                                          |           |                                          |             |             |             |                    |                  |
| 40                                                                       | SS          | SP/SS |         | 40 ft. SAND with SANDSTONE/SILTSTONE, sand light brown, very fine grained, dry, sandstone/siltstone approx 20%, hard, no H/C staining, possible slight H/C odor          | 29.4      | 1006499-63                               | <0.050      | 5.6         | 15          | <0.0010            | 21.8             |
| 45                                                                       |             |       |         |                                                                                                                                                                          |           |                                          |             |             |             |                    |                  |
| 50                                                                       | SS          |       |         | 50 ft. SAND and SANDSTONE/SILTSTONE, sand light brown, very fine grained, dry, sandstone/siltstone approx. 20%, hard, no H/C staining, slight H/C odor                   | 20.1      | 1006499-64                               | <0.050      | 3.3         | 10          | <0.0010            | 21.1             |
| 55                                                                       |             |       |         |                                                                                                                                                                          |           |                                          |             |             |             |                    |                  |
| 60                                                                       | SS          | SM/SS |         | 60 ft. SILTY SAND with SANDSTONE/SILTSTONE, sand light brown, white streaks, very fine grained, dry, sandstone/siltstone 5-10%, soft, no H/C staining, possible H/C odor | 12.9      | 1006499-65                               | <0.050      | 4.2         | 11          | <0.0010            | 22.2             |
| 65                                                                       |             |       |         |                                                                                                                                                                          |           |                                          |             |             |             |                    |                  |

**Notes:**

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Backfilled with bentonite chips, well hydrated

H/C - Hydrocarbon



**Safety & Environmental  
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## LOG OF BORING WSB-7

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WSB-7  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 47.7", W103° 18' 12.2"

Date, Time Started : 06/11/10, 1130  
Date, Time Complete : 06/11/10, 1600  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                      | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                                           |           |            |             |             |             |                    |                  |
| 65                  |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 70                  | SS          | SM/SS |         | 70 ft. SILTY SAND with<br>SANDSTONE/SILTSTONE, sand light brown, very<br>fine grained, dry, sandstone/siltstone soft to<br>hard, white streaks, no H/C staining, possible H/C<br>odor | 9.3       | 1006499-66 | <0.050      | <1.7        | 3.8         | <0.0010            | 25.2             |
| 75                  |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 80                  | SS          | SM/SS |         | 80 ft. SILTY SAND with SANDSTONE, sand light<br>brown, very fine grained, dry, sandstone soft,<br>approx 5-10%, with white streaks, no H/C<br>staining, slight H/C odor               | 6.8       | 1006499-67 | <0.050      | 7.3         | 12          | <0.0010            | 27.3             |
| 85                  |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 90                  | SS          | SP/SS |         | 90 ft. SAND, light brown, very fine grained,<br>slightly damp, with approx 5% soft SANDSTONE,<br>no H/C staining, slight H/C odor                                                     | 10.2      | 1006499-68 | <0.050      | 64          | 76          | <0.0010            | 30.9             |
| 95                  |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 100                 | SS          | SP    |         | 100 ft. SAND, light brown, very fine grained, dry,<br>with <5% sandstone fragments, fragments hard,<br>small <1/4 in., no H/C staining, slight H/C odor                               | 3.2       | 1006499-69 | <0.050      | 3.8         | 7.3         | <0.0010            | 28.1             |
| 105                 |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 110                 | SS          | SM/SS |         | 110 ft. SILTY SAND, light brown, H2O saturated,<br>very fine grained, with 5-10%<br>sandstone/siltstone fragments, no free product,<br>possible slight H/C odor, no H/C staining      | -         | 1006499-70 | <0.050      | 6.4         | 8.9         | <0.0010            | 17.5             |
| 115                 |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                                                                       |           |            |             |             |             |                    |                  |

### Notes:

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.  
Drilled to 110 ft. Sampled every 10 ft. to saturation.  
Backfilled with bentonite chips, well hydrated  
H/C - Hydrocarbon



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## LOG OF BORING WSB-8

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|                                                                          |                                      |                                                             |
|--------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------|
| WSB-8<br>Navajo Refining Company, Lea Refinery<br>Section 36, T16S, R36E | Date, Time Started : 06/26/10, 0700  | Drilled By : WDC Drilling and Wells                         |
|                                                                          | Date, Time Complete : 06/26/10, 1215 | Sampling Method : 24-in. Splitspoon with<br>downhole hammer |
| Lea County, New Mexico<br>N32° 52' 48.2", W103° 18' 12.2"                | Hole Diameter : 8 1/4 in.            | Logged By : David Boyer, PG                                 |
|                                                                          | Drilling Method : Hollow Stem Auger  | Company Rep. : Steve Terry, Navajo                          |
| Drilling Equipment : CME-85                                              |                                      |                                                             |

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                        | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                             |           |            |             |             |             |                    |                  |
| 0                   |             |       |         | WSB-8 drilled adjacent to WSB-2<br>0-5 ft. CALICHE                                                                                                                      |           |            |             |             |             |                    |                  |
| 5                   |             | CA    |         | CALICHE to 7-8 ft.,                                                                                                                                                     |           |            |             |             |             |                    |                  |
| 10                  | SS          |       |         | 10 ft. SILTY SAND, light brown, very fine<br>grained, <5% SANDSTONE fragments, no H/C<br>staining or odor                                                               | 0.8       | 1007008-01 | <0.050      | <1.7        | <3.4        | <0.0010            | 5.32             |
| 15                  |             | SM    |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 20                  | SS          |       |         | 20 ft. SILTY SAND with soft white CALICHE,<br>sand light brown, very fine grained, black<br>streaks (staining), no H/C odor                                             | 0.0       | 1007008-02 | <0.050      | 2.2         | <3.4        | <0.0010            | 35.2             |
| 25                  |             | SM/CA |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 30                  | SS          |       |         | 25 ft. SAND, gray with H/C odor                                                                                                                                         |           |            |             |             |             |                    |                  |
| 35                  |             |       |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 40                  | SS          |       |         | 30 ft. SAND, light brown, very fine grained,<br>uniform, water damp, very strong H/C odor, no<br>H/C staining                                                           | 3.5       | 1007008-03 | 43          | 950         | 370         | 4.0 (E,X)          | 14.7             |
| 45                  |             | SP    |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 50                  | SS          |       |         | 40 ft. SAND, light brown, very fine grained,<br>uniform, water damp, with white caliche<br>streaks, H/C odor                                                            | 2.4       | 1007008-04 | 19          | 860         | <340        | 2.17 (T,E,X)       | 62.2             |
| 55                  |             |       |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 60                  | SS          |       |         | 50 ft. SAND with SANDSTONE/SILTSTONE,<br>sand very fine grained, sandstone/siltstone<br>fragments >10%, partially cemented, white<br>streaks, H/C odor, no H/C staining | 2.2       | 1007008-05 | <0.050      | <1.7        | <3.4        | <0.0010            | 49.4             |
| 65                  |             | SP/SS |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
|                     | SS          |       |         | 60 ft. SILTY SAND and SANDSTONE, sand,<br>light brown, very fine grained, poorly<br>consolidated sandstone fragments 5-10%, no<br>H/C staining or odor                  | 3.4       | 1007008-06 | <0.050      | 2.2         | <3.4        | <0.0010            | 22.9             |
|                     |             | SM/SS |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |

**Notes:**

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Plugged back to 5 ft. with 14 bags Quik-Grout.

BTEX detections are toluene, ethylbenzene and xylenes, no benzene detected. H/C - hydrocarbon



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## LOG OF BORING WSB-8

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|                                                                          |                                      |                                                             |
|--------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------|
| WSB-8<br>Navajo Refining Company, Lea Refinery<br>Section 36, T16S, R36E | Date, Time Started : 06/26/10, 0700  | Drilled By : WDC Drilling and Wells                         |
|                                                                          | Date, Time Complete : 06/26/10, 1215 | Sampling Method : 24-in. Splitspoon with<br>downhole hammer |
| Lea County, New Mexico<br>N32° 52' 48.2", W103° 18' 12.2"                | Hole Diameter : 8 1/4 in.            | Logged By : David Boyer, PG                                 |
|                                                                          | Drilling Method : Hollow Stem Auger  | Company Rep. : Steve Terry, Navajo                          |
|                                                                          | Drilling Equipment : CME-85          |                                                             |

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                         | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                                              |           |            |             |             |             |                    |                  |
| 65                  |             | SM/SS |         |                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         | 70 ft. SILTY SAND, light brown, very fine grained, sandstone fragments <5%, "sweet" aromatic odor, no H/C staining                                                                       | 2.4       | 1007008-07 | <0.050      | <1.7        | <3.4        | <0.0010            | 55.0             |
| 75                  |             |       |         |                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 80                  | SS          | SM    |         | 80 ft. SILTY SAND, light brown with white streaks, very fine grained, <5% sandstone/siltstone fragments, slight odor, no H/C staining                                                    | 1.5       | 1007008-08 | <0.050      | <1.7        | <3.4        | <0.0010            | 69.1             |
| 85                  |             |       |         |                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, light brown, very fine grained, compact, uniform, slightly damp, no silt, no sandstone/siltstone fragments, no H/C staining, little or no odor                              | 1.9       | 1007008-09 | 1.1         | 350         | <85         | 0.0214 (T,E,X)     | 16.4             |
| 95                  |             |       |         |                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 100                 | SS          | SP    |         | 100 ft. SAND, light brown, very fine grained, compact, uniform, slightly damp, no silt, no sandstone/siltstone fragments, no H/C staining, little or no odor                             | 1.3       | 1007008-10 | 0.075       | 8.1         | <3.4        | <0.0010            | 10.0             |
| 105                 |             |       |         |                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 110                 | SS          |       |         | 110 ft. SAND, light brown, very fine grained, compact, uniform, slightly damp, no silt, no sandstone/siltstone fragments, H2O saturated, no H/C staining, little or no odor, no oil seen | 2.3       | 1007008-11 | <0.050      | <1.7        | <3.4        | <0.0010            | 33.4             |
| 115                 |             |       |         |                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                                                                          |           |            |             |             |             |                    |                  |

### Notes:

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Plugged back to 5 ft. with 14 bags Quik-Grout.

BTEX detections are toluene, ethylbenzene and xylenes, no benzene detected. H/C - hydrocarbon





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## LOG OF BORING WSB-9

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| WSB-9<br>Navajo Refining Company, Lea Refinery<br>Section 36, T16S, R36E |             |       |         | Date, Time Started : 06/26/10, 1245<br>Date, Time Complete : 06/26/10, 1530<br>Hole Diameter : 8 1/4 in.<br>Drilling Method : Hollow Stem Auger<br>Drilling Equipment : CME-85                |           | Drilled By : WDC Drilling and Wells<br>Sampling Method : 24-in. Splitspoon with<br>downhole hammer<br>Logged By : David Boyer, PG<br>Company Rep. : Steve Terry, Navajo |             |             |             |                    |                  |
|--------------------------------------------------------------------------|-------------|-------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|--------------------|------------------|
| Lea County, New Mexico<br>N32° 52' 48.1", W103° 18' 12.7"                |             |       |         |                                                                                                                                                                                               |           |                                                                                                                                                                         |             |             |             |                    |                  |
| Depth<br>in<br>Feet                                                      | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery<br><br>DESCRIPTION                                                           | PID (ppm) | Lab No.                                                                                                                                                                 | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
| 0                                                                        |             | CA    |         | 1-4 ft. CALICHE                                                                                                                                                                               |           |                                                                                                                                                                         |             |             |             |                    |                  |
| 5                                                                        |             | SM/CA |         | 4-6 ft. SILTY SAND and CALICHE                                                                                                                                                                |           |                                                                                                                                                                         |             |             |             |                    |                  |
| 10                                                                       | SS          |       |         | 10 ft. SILTY SAND with frequent<br>SANDSTONE/SILTSTONE, sand light brown, very<br>fine grained, sandstone/siltstone approx. 20%,<br>soft to hard, white, dry, no H/C staining or odor         | 0.8       | 1007008-12                                                                                                                                                              | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 15                                                                       |             | SM/SS |         |                                                                                                                                                                                               |           |                                                                                                                                                                         |             |             |             |                    |                  |
| 20                                                                       | SS          |       |         | 20 ft. SILTY SAND with frequent<br>SANDSTONE/SILTSTONE, sand light brown, very<br>fine grained, dry, sandstone/siltstone approx.<br>10%, soft to hard, white, dry, no H/C staining or<br>odor | 1.3       | 1007008-13                                                                                                                                                              | <0.050      | <1.7        | <3.4        | <0.0010            | 71.2             |
| 25                                                                       |             | SM/SS |         |                                                                                                                                                                                               |           |                                                                                                                                                                         |             |             |             |                    |                  |
| 30                                                                       | SS          |       |         | 30 ft. SAND, light brown, very fine grained,<br>uniform, damp, approx 5%<br>SANDSTONE/SILTSTONE, no H/C staining or odor                                                                      | 0.8       | 1007008-14                                                                                                                                                              | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 35                                                                       |             | SP/SS |         |                                                                                                                                                                                               |           |                                                                                                                                                                         |             |             |             |                    |                  |
| 40                                                                       | SS          |       |         | 40 ft. SILTY SAND with<br>SANDSTONE/SILTSTONE, sand light brown with<br>white streaks, very fine grained, dry,<br>sandstone/siltstone 5-10%, no H/C staining or<br>odor                       | 0.2       | 1007008-15                                                                                                                                                              | <0.050      | <1.7        | <3.4        | <0.0010            | 71.2             |
| 45                                                                       |             | SM/SS |         |                                                                                                                                                                                               |           |                                                                                                                                                                         |             |             |             |                    |                  |
| 50                                                                       | SS          |       |         | 50 ft. SILTY SAND with<br>SANDSTONE/SILTSTONE, sand light brown, very<br>fine grained, dry, sandstone/siltstone 10-20%,<br>soft to hard, no H/C staining or odor                              | 0.0       | 1007008-16                                                                                                                                                              | <0.050      | <1.7        | <3.4        | <0.0010            | 15.4             |
| 55                                                                       |             | SM/SS |         |                                                                                                                                                                                               |           |                                                                                                                                                                         |             |             |             |                    |                  |
| 60                                                                       | SS          |       |         | 60 ft. SILTY SAND with occasional large well<br>cemented SANDSTONE, sand light brown, very<br>fine grained, sandstone <10%, fragments to 1.5<br>in., no H/C staining or odor                  | 0.0       | 1007008-17                                                                                                                                                              | <0.050      | <1.7        | <3.4        | <0.0010            | 69.1             |
| 65                                                                       |             | SM/SS |         |                                                                                                                                                                                               |           |                                                                                                                                                                         |             |             |             |                    |                  |

**Notes:**

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Backfilled with 13 sack of Quik-grout

H/C - Hydrocarbon



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## LOG OF BORING WSB-9

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WSB-9  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.1", W103° 18' 12.7"

Date, Time Started : 06/26/10, 1245  
Date, Time Complete : 06/26/10, 1530  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                         | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                              |           |            |             |             |             |                    |                  |
| 65                  |             |       |         |                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 70                  | SS          | SM/SS |         | 70 ft. SILTY SAND, light brown, very fine grained, dry, with poorly consolidated SANDSTONE/SILTSTONE, approx. 5%, no H/C staining or odor                                | 0.0       | 1007008-18 | <0.050      | <1.7        | 3.6         | <0.0010            | 99.3             |
| 75                  |             |       |         |                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 80                  | SS          | SM    |         | 80 ft. SILTY SAND, light brown, very fine grained, dry, less than 5% sandstone/siltstone fragments, no H/C staining or odor                                              | 0.0       | 1007008-19 | <0.050      | <1.7        | <3.4        | <0.0010            | 9.84             |
| 85                  |             |       |         |                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 90                  | SS          | SM/SS |         | 90 ft. SILTY SAND, light brown, very fine grained, dry, frequent very poorly consolidated SANDSTONE/SILTSTONE, approx. 5-10% with white streaks, no H/C staining or odor | 0.0       | 1007008-20 | <0.050      | <1.7        | <3.4        | <0.0010            | 9.56             |
| 95                  |             |       |         |                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 100                 | SS          | SP    |         | 100 ft. SAND, light brown, very fine grained, damp, no H/C staining or odor                                                                                              | 0.0       | 1007008-21 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 105                 |             |       |         |                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 110                 | SS          |       |         | 110 ft. SAND, light brown, very fine grained, H2O saturated, no H/C staining or odor                                                                                     | --        | 1007008-22 | <0.050      | <1.7        | <3.4        | <0.0010            | 29.2             |
| 115                 |             |       |         |                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                                                          |           |            |             |             |             |                    |                  |

### Notes:

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.  
Drilled to 110 ft. Sampled every 10 ft. to saturation.  
Backfilled with 13 sack of Quik-grout  
H/C - Hydrocarbon



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## LOG OF BORING WSB-10

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WSB-10  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.0", W103° 18' 12.9"

Date, Time Started : 06/28/10, 1245  
Date, Time Complete : 06/28/10, 1505  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                                | DESCRIPTION | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
| 0                   |             | CA    |         | 0-4 ft. CALICHE                                                                                                                                                                                 |             |           |            |             |             |             |                    |                  |
| 5                   |             |       |         |                                                                                                                                                                                                 |             |           |            |             |             |             |                    |                  |
| 10                  | SS          |       |         | 10 ft. SILTY SAND with frequent<br>SANDSTONE/SILTSTONE fragments, sand light<br>brown, very fine grained, sandstone/siltstone<br>5-10%, no H/C staining or odor                                 |             | --        | 1007008-34 | <0.050      | <1.7        | <3.4        | <0.0010            | 20.3             |
| 15                  |             | SM/SS |         |                                                                                                                                                                                                 |             |           |            |             |             |             |                    |                  |
| 20                  | SS          |       |         | 20 ft. SILTY SAND with frequent<br>SANDSTONE/SILTSTONE fragments, sand light<br>brown, very fine grained, sandstone/siltstone<br>5-10%, no H/C staining or odor                                 |             | 0.0       | 1007008-35 | <0.050      | 2.9         | <3.4        | <0.0010            | 43.4             |
| 25                  |             |       |         |                                                                                                                                                                                                 |             |           |            |             |             |             |                    |                  |
| 30                  | SS          |       |         | 30 ft. SILTY SAND becoming clean with less<br>sandstone/siltstone fragments (approx 5%) at<br>top, damp at shoe, no H/C staining or odor                                                        |             | 0.0       | 1007008-36 | <0.050      | <1.7        | <3.4        | <0.0010            | 34.0             |
| 35                  |             | SM    |         |                                                                                                                                                                                                 |             |           |            |             |             |             |                    |                  |
| 40                  | SS          |       |         | 40 ft. SILTY SAND, light brown, with frequent<br>SANDSTONE/SILTSTONE fragments (approx.<br>10%), dry, no H/C staining or odor                                                                   |             | 0.0       | 1007008-37 | <0.050      | 2.2         | <3.4        | <0.0010            | 116              |
| 45                  |             | SM/SS |         |                                                                                                                                                                                                 |             |           |            |             |             |             |                    |                  |
| 50                  | SS          |       |         | 50 ft. SILTY SAND, light brown, very fine<br>grained, less than 5% sandstone/siltstone<br>fragments, slightly damp, no H/C staining or odor                                                     |             | 0.0       | 1007008-38 | <0.050      | 2.4         | <3.4        | <0.0010            | 47.7             |
| 55                  |             | SM    |         |                                                                                                                                                                                                 |             |           |            |             |             |             |                    |                  |
| 60                  | SS          |       |         | 60 ft. SILTY SAND and SANDSTONE/SILTSTONE,<br>light brown, very fine grained,<br>sandstone/siltstone light brown with white<br>streaks, soft to very hard fragments, no H/C<br>staining or odor |             | 0.0       | 1007008-39 | <0.050      | <1.7        | <3.4        | <0.0010            | 78.1             |
| 65                  |             | SM/SS |         |                                                                                                                                                                                                 |             |           |            |             |             |             |                    |                  |

**Notes:**

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.  
Drilled to 110 ft. Sampled every 10 ft. to saturation.  
Backfilled with bentonite, hydrated.  
H/C - Hydrocarbon



**Safety & Environmental  
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## LOG OF BORING WSB-10

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WSB-10  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.0", W103° 18' 12.9"

Date, Time Started : 06/28/10, 1245

Date, Time Complete : 06/28/10, 1505

Hole Diameter : 8 1/4 in.

Drilling Method : Hollow Stem Auger

Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells

Sampling Method : 24-in. Splitspoon with

downhole hammer

Logged By : David Boyer, PG

Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery | DESCRIPTION                                                                                                                                                                                           | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
| 65                  |             |       |         |                                                                                                                  |                                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 70                  | SS          | SM/SS |         |                                                                                                                  | 70 ft. SILTY SAND and SANDSTONE/SILTSTONE, sand light brown, very fine grained, approx 10-15% sandstone/siltstone, soft to well cemented, 2 in. diameter sandstone "cookies", no H/C staining or odor | 0.0       | 1007008-40 | <0.050      | <1.7        | <3.4        | <0.0010            | 58.2             |
| 75                  |             |       |         |                                                                                                                  |                                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 80                  | SS          | SM    |         |                                                                                                                  | 80 ft. SILTY SAND with white streaks, less than 5% sandstone/siltstone rock fragments, sand light brown, very fine grained, no H/C staining or odor                                                   | 0.0       | 1007008-41 | <0.050      | <1.7        | <3.4        | <0.0010            | 61.0             |
| 85                  |             |       |         |                                                                                                                  |                                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         |                                                                                                                  | 90 ft. SILTY SAND with SANDSTONE/SILTSTONE fragments, approx 5-10% fragments, well cemented, sand light brown, very fine grained, no H/C staining or odor                                             | 0.0       | 1007008-42 | <0.050      | <1.7        | <3.4        | <0.0010            | 57.5             |
| 95                  |             |       |         |                                                                                                                  |                                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 100                 | SS          | SM/SS |         |                                                                                                                  | 100 ft. SILTY SAND, light brown, very fine grained, approx. 5% sandstone/siltstone fragments, sand damp, no H/C staining or odor                                                                      | 0.0       | 1007008-43 | <0.050      | <1.7        | <3.4        | <0.0010            | 77.4             |
| 105                 |             |       |         |                                                                                                                  |                                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 110                 | SS          | SP    |         |                                                                                                                  | 110 ft. SAND, light brown, very fine grained, less than 5% sandstone/siltstone fragments, H2O saturated, no H/C staining or odor                                                                      | 0.0       | 1007008-44 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 115                 |             |       |         |                                                                                                                  |                                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                  |                                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                  |                                                                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                  |                                                                                                                                                                                                       |           |            |             |             |             |                    |                  |

**Notes:**

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Backfilled with bentonite, hydrated.

H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING WSB-11

(Page 1 of 2)

WSB-11  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 47.6", W103° 18' 12.8"

Date, Time Started : 06/28/10, 0900  
Date, Time Complete : 06/28/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample<br>Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                           | PID<br>(ppm) | Lab No.    | GRO<br>(mg/Kg) | DRO<br>(mg/Kg) | MOR<br>(mg/Kg) | Total BTEX<br>(mg/Kg) | Chloride<br>(mg/Kg) |
|---------------------|----------------|-------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|----------------|----------------|----------------|-----------------------|---------------------|
|                     |                |       |         | DESCRIPTION                                                                                                                                                                |              |            |                |                |                |                       |                     |
| 0                   |                | CA    |         | 0-4 ft. CALICHE                                                                                                                                                            |              |            |                |                |                |                       |                     |
| 5                   |                | SS    |         | 7 ft. SANDSTONE                                                                                                                                                            |              |            |                |                |                |                       |                     |
| 10                  | SS             |       |         | 10 ft. CLAYEY SANDY SILT, sand light brown with white streaks, very fine grained, hard, dry, minor sandstone/siltstone (less than 5%), no H/C staining or odor             | 0.0          | 1007008-23 | <0.050         | <1.7           | <3.4           | <0.0010               | 20.5                |
| 15                  |                | SM    |         |                                                                                                                                                                            |              |            |                |                |                |                       |                     |
| 20                  | SS             |       |         | 20 ft. SILTY SAND, light brown, very fine grained, SANDSTONE/SANDSTONE, fragments 5-10 %, no H/C staining or odor                                                          | 0.0          | 1007008-24 | <0.050         | <1.7           | <3.4           | <0.0010               | 12.7                |
| 25                  |                | SM/SS |         |                                                                                                                                                                            |              |            |                |                |                |                       |                     |
| 30                  | SS             |       |         | 30 ft. SAND, light brown, very fine grained, uniform, damp, slight odor (not H/C?), no H/C staining                                                                        | 0.0          | 1007008-25 | <0.050         | <1.7           | <3.4           | <0.0010               | 17.2                |
| 35                  |                | SP    |         |                                                                                                                                                                            |              |            |                |                |                |                       |                     |
| 40                  | SS             |       |         | 40 ft. SAND, light brown, very fine grained, damp, uniform, sandstone/siltstone rock in shoe, poor to well cemented, possible non-descript odor, no no H/C staining        | 0.0          | 1007008-26 | <0.050         | <1.7           | <3.4           | <0.0010               | 30.1                |
| 45                  |                |       |         |                                                                                                                                                                            |              |            |                |                |                |                       |                     |
| 50                  | SS             |       |         | 50 ft. SILTY SAND with SANDSTONE/SILTSTONE, sand very light brown, very fine grained, approx. 10% sandstone/siltstone, poor to well cemented, dry, no H/C staining or odor | 0.0          | 1007008-27 | <0.050         | <1.7           | <3.4           | <0.0010               | 46.6                |
| 55                  |                | SP/SS |         |                                                                                                                                                                            |              |            |                |                |                |                       |                     |
| 60                  | SS             |       |         | 60 ft. SILTY SAND, light brown, very fine grained, uniform, slightly damp, no sandstone/siltstone frags, no H/C staining or odor                                           | 0.0          | 1007008-28 | <0.050         | 6.2            | <3.4           | <0.0010               | 30.7                |
| 65                  |                | SM    |         |                                                                                                                                                                            |              |            |                |                |                |                       |                     |

**Notes:**

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Backfilled with bentonite, hydrated.

Low level BTEX are ethylbenzene and xylenes, no benzene detected. H/C - Hydrocarbon



**Safety & Environmental  
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## LOG OF BORING WSB-11

(Page 2 of 2)

WSB-11  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 47.6", W103° 18' 12.8"

Date, Time Started : 06/28/10, 0900  
Date, Time Complete : 06/28/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                                         | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                                                              |           |            |             |             |             |                    |                  |
| 65                  |             | SM    |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         | 70 ft. SILTY SAND with<br>SANDSTONE/SILTSTONE, sand light brown, very<br>fine grained, sandstone/siltstone approx. 5-10%,<br>rock in shoe, poor to well cemented, no H/C<br>staining or odor             | 0.0       | 1007008-29 | <0.050      | 8.7         | <3.4        | <0.0010            | 34.6             |
| 75                  |             |       |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 80                  | SS          | SM/SS |         | 80 ft. SILTY SAND with<br>SANDSTONE/SILTSTONE, 10-15% fragments to<br>2-in. (spoon diameter) soft to hard cementing,<br>dry, slight sweet odor, no no H/C staining                                       | 0.0       | 1007008-30 | <0.050      | 3.8         | <3.4        | <0.0010            | 38.6             |
| 85                  |             |       |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, light brown, very fine grained,<br>damp, slight sweet odor, no sandstone/siltstone<br>or fragments, no H/C staining                                                                         | 0.0       | 1007008-31 | 0.68        | 16.1        | <3.4        | 0.043 (E,X)        | 22.0             |
| 95                  |             | SP    |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 100                 | SS          |       |         | 100 ft. SILTY SAND and<br>SANDSTONE/SILTSTONE, sand light brown, very<br>fine grained, sandstone/siltstone light brown with<br>white streaks, soft to well cemented, no staining,<br>possible sweet odor | 0.0       | 1007008-32 | <0.050      | 3.8         | <3.4        | 0.030 (E,X)        | 16.9             |
| 105                 |             | SP/SS |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 110                 | SS          | SP/SS |         | 110 ft. SAND, light brown, very fine grained,<br>large SANDSTONE/SILTSTONE rock in shoe, H2O<br>saturated, possible slight odor, no H/C staining                                                         | 0.0       | 1007008-32 | <0.050      | <5.1        | <3.4        | <0.0010            | 5.20             |
| 115                 |             |       |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |

**Notes:**

Knifed location prior to drilling to 5 ft. or top of caliche, whichever is less.

Drilled to 110 ft. Sampled every 10 ft. to saturation.

Backfilled with bentonite, hydrated.

Low level BTEX are ethylbenzene and xylenes, no benzene detected. H/C - Hydrocarbon

## **Appendix B**

### **New and Existing Monitor Well Lithologic and Completion Logs**





**Safety & Environmental  
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## LOG OF BORING MW-15

(Page 1 of 2)

Monitor Well 15  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 56.43", W103° 18' 15.69"

Date, Time Started : 05/22/10, 1430  
Date, Time Complete : 05/22/10, 1140  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery  | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                       |           |            |             |             |             |                    |                  |
| 0                   | TS          |       |         | 0-0.5 ft. Topsoil                                                                                                 |           |            |             |             |             |                    |                  |
| 5                   | CA/SP       |       |         | 0.5-6 ft. CALICHE with SAND                                                                                       |           |            |             |             |             |                    |                  |
| 10                  | SS          |       |         | 6-10 ft. SAND and CALICHE                                                                                         |           |            |             |             |             |                    |                  |
| 15                  | SP/CA       |       |         | 10 ft. SAND and CALICHE, sand very light brown, fine grained, dry, caliche soft, friable, no H/C staining or odor | 0.0       | 1005814-22 | <0.050      | <1.7        | <3.4        | <0.0010            | <5               |
| 20                  | SS          |       |         | 20 ft. SILTY SAND, light brown, very fine grained, dry, uniform, little or no caliche, no H/C staining or odor    | 0.0       | 1005814-23 | <0.050      | <1.7        | <3.4        | <0.0010            | <5               |
| 25                  | SM          |       |         |                                                                                                                   |           |            |             |             |             |                    |                  |
| 30                  | SS          |       |         | 30 ft. SAND, light brown, very fine grained, uniform, dry, no caliche or sandstone, no H/C staining or odor       | 0.0       | 1005814-24 | <0.050      | <1.7        | <3.4        | <0.0010            | <5               |
| 35                  | SP          |       |         |                                                                                                                   |           |            |             |             |             |                    |                  |
| 40                  | SS          |       |         | 40 ft. SAND, light brown, very fine grained, some soft SANDSTONE, no H/C staining or odor                         | 0.2       | 1005814-25 | <0.050      | <1.7        | <3.4        | <0.0010            | <5               |
| 45                  |             |       |         |                                                                                                                   |           |            |             |             |             |                    |                  |
| 50                  | NR          | SP/SS |         | 50 ft. No recovery                                                                                                |           |            |             |             |             |                    |                  |
| 55                  | SS          |       |         | 55 ft. SAND, light brown, very fine grained, soft SANDSTONE <10%, no H/C staining or odor                         | 0.0       | 1005814-26 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.37             |
| 60                  | SS          | SP    |         | 60 ft. SAND, light brown, very fine grained, dry, little or no sandstone, no H/C staining or odor                 | 2.4       | 1005814-27 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.39             |
| 65                  |             |       |         |                                                                                                                   |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 125 ft. and completed as MW-15

Sampled every 10 ft. to saturation.

Depth to water 5/23/10 106.9 ft. BLS.

H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING MW-15

(Page 2 of 2)

Monitor Well 15  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 56.43", W103° 18' 15.69"

Date, Time Started : 05/22/10, 1430  
Date, Time Complete : 05/22/10, 1140  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                       | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                            |           |            |             |             |             |                    |                  |
| 65                  |             | SP    |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         | 70 ft. SAND, light brown, very fine grained, dry, increasing soft SANDSTONE, no H/C staining or odor                                                   | 5.8       | 1005814-28 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.36             |
| 75                  |             |       |         | 75 ft. Increasing hard SANDSTONE/SILTSTONE                                                                                                             |           |            |             |             |             |                    |                  |
| 80                  | SS          | SP/SS |         | 80 ft. SAND with occasional hard SANDSTONE/SILTSTONE <10%, sand light brown, very fine grained, dry, occasional white streaks, no H/C staining or odor | 0.1       | 1005814-29 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.08             |
| 85                  |             |       |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, silty, light brown, very fine grained, slightly damp, uniform, no sandstone or siltstone, no H/C staining or odor                         | 1.8       | 1005814-30 | <0.050      | <1.7        | <3.4        | <0.0010            | <5               |
| 95                  |             | SP/SM |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 100                 | SS          |       |         | 100 ft. SAND, silty, light brown, very fine grained, slightly damp, uniform, no sandstone or siltstone, no H/C staining or odor                        | 1.1       | 1005814-31 | <0.050      | <1.7        | <3.4        | <0.0010            | 5.99             |
| 105                 | SS          |       |         | 105 ft. SAND, brown, very fine grained, moist, sandstone <10%, no H/C staining or odor                                                                 | 0.2       | 1005814-32 | <0.050      | <1.7        | <3.4        | <0.0010            | 10.6             |
| 110                 |             | SP    |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 115                 | CT          |       |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
|                     |             | SP/SS |         | 116-118 ft. SANDSTONE lens, 1-2 in. thick                                                                                                              |           |            |             |             |             |                    |                  |
| 120                 |             | SP    |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
|                     |             | SP/SS |         | 121-122 ft. SANDSTONE lens, 1-2 in. thick                                                                                                              |           |            |             |             |             |                    |                  |
| 125                 |             | SP    |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                                        |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 125 ft. and completed as MW-15  
Sampled every 10 ft. to saturation.  
Depth to water 5/23/10 106.9 ft. BLS.  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING MW-16

(Page 1 of 2)

Monitor Well 16  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.60", W103° 18' 17.79"

Date, Time Started : 05/24/10, 0930  
Date, Time Complete : 05/25/10, 0900  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                                                           | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                                                                                |           |            |             |             |             |                    |                  |
| 0                   |             |       |         | 0-5 ft. CALICHE                                                                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 5                   |             | CA    |         |                                                                                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 10                  | SS          | SM/SS |         | 5-10 ft. SILTY SAND with<br>SANDSTONE/SILTSTONE<br>10 ft. Saturated sample, possible slough from<br>hammer but slough in spoon is dry, possible<br>perched zone from surface water or refinery, no<br>H/C staining or odor | 0.0       | 1005946-01 | <0.050      | <1.7        | <3.4        | <0.0010            | 39.0             |
| 15                  | SS          | SP/SS |         | 15 ft. SAND and SANDSTONE/SILTSTONE<br>fragments, light brown, moist, no H/C staining or<br>odor                                                                                                                           | 0.0       | 1005946-47 | <0.050      | <1.7        | 26          | <0.0010            | 30.6             |
| 20                  | SS          | SL    |         | 16 ft. SILTSTONE, hard, "cookies," softer at 17 ft.                                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 25                  |             |       |         | 20 ft. SAND, brown, very fine grained, uniform,<br>damp, no H/C staining or odor                                                                                                                                           | 0.1       | 1005946-02 | 0.32        | <1.7        | <3.4        | <0.0010            | <5.00            |
| 30                  | SS          | SP    |         |                                                                                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 35                  |             |       |         | 30 ft. SAND, brown, very fine to fine grained,<br>silty, occasional sandstone/siltstone rock, sand<br>above 30 ft. damp then dry, no H/C staining or<br>odor                                                               | 0.0       | 1005946-03 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 40                  | SS          |       |         |                                                                                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 45                  |             | SM    |         | 40 ft. SILTY SAND, brown, very fine grained,<br>with minor sandstone/siltstone rock <10%, no<br>H/C staining or odor                                                                                                       | 0.0       | 1005946-04 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 50                  | SS          |       |         |                                                                                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 55                  |             | SM/SS |         | 50 ft. SILTY SAND, light brown, very fine<br>grained, occasional SANDSTONE/SILTSTONE,<br>approx. 10%, no H/C staining or odor                                                                                              | 0.1       | 1005946-05 | <0.050      | <1.7        | <3.4        | <0.0010            | 12.8             |
| 60                  | SS          | SP    |         |                                                                                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 65                  |             |       |         | 60 ft. SAND, light brown, very fine grained, dry,<br>no sandstone/siltstone, no H/C staining or odor                                                                                                                       | 0.0       | 1005946-06 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |

**Notes:**

Drilled to 125 ft. and completed as MW-16  
Sampled every 10 ft. to saturation.  
Depth to water 5/24/10 105.8 ft. BLS.  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING MW-16

(Page 2 of 2)

Monitor Well 16  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.60", W103° 18' 17.79"

Date, Time Started : 05/24/10, 0930  
Date, Time Complete : 05/25/10, 0900  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery            | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-----------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                 |           |            |             |             |             |                    |                  |
| 65                  |             | SP    |         |                                                                                                                             |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         | 70 ft. SAND, light brown, some silt, soft SANDSTONE "cookies" poorly consolidated, poorly cemented, no H/C staining or odor | 0.0       | 1005946-07 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 75                  |             | SP/SS |         |                                                                                                                             |           |            |             |             |             |                    |                  |
| 80                  | SS          |       |         | 80 ft. SAND, light brown, some silt, occasional hard sandstone/siltstone, no H/C staining or odor                           | 0.0       | 1005946-08 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 85                  |             |       |         |                                                                                                                             |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, light brown, slightly moist, no H/C staining or odor                                                           | 0.3       | 1005946-09 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 95                  |             |       |         |                                                                                                                             |           |            |             |             |             |                    |                  |
| 100                 | SS          |       |         | 100 ft. SAND, light brown, very fine grained, uniform, slightly moist, no H/C staining or odor                              | 0.4       | 1005946-10 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 105                 | SS          |       |         | 105 ft. SAND, brown, very fine grained, H2O saturated, no H/C staining or odor                                              | --        | 1005946-11 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.40             |
| 110                 |             |       |         |                                                                                                                             |           |            |             |             |             |                    |                  |
| 115                 | CT          |       |         | 105-125 ft. SAND, minor sandstone/siltstone lenses                                                                          |           | 1005946-12 |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                             |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                             |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                             |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 125 ft. and completed as MW-16  
Sampled every 10 ft. to saturation.  
Depth to water 5/24/10 105.8 ft. BLS.  
H/C - Hydrocarbon



**Safety & Environmental  
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# LOG OF BORING MW-17

(Page 1 of 2)

Monitor Well 17  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Date, Time Started : 05/23/10, 1230  
Date, Time Complete : 05/23/10, 1700  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

Lea County, New Mexico  
N32° 52' 43.77", W103° 18' 13.68"

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery | DESCRIPTION                                                                                                                                                       | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
| 0                   | CT          |       |         |                                                                                                                  | 0-2 ft. CALICHE with weathered hydrocarbons,<br>no odor                                                                                                           | --        | 1005814-45 | <0.050      | 8.5         | 63          | 0.0031 (T)         | 4.90             |
| 5                   |             | CA    |         |                                                                                                                  | 2-6 ft. CALICHE, hard, fractured, white to brown                                                                                                                  |           |            |             |             |             |                    |                  |
| 10                  | SS          | SP/SS |         |                                                                                                                  | 6-10 ft. SAND with silty SANDSTONE, very light<br>brown, very fine grained, no H/C staining or odor                                                               | --        | 1005814-33 | <0.050      | <1.7        | <3.4        | <0.0010            | 15.4             |
| 15                  |             |       |         |                                                                                                                  | 12 ft. Lithology change to SAND                                                                                                                                   |           |            |             |             |             |                    |                  |
| 20                  | SS          | SP    |         |                                                                                                                  | 20 ft. SAND, brown, very fine grained, slightly<br>damp, uniform, minor sandstone/siltstone <5%,<br>no H/C staining or odor                                       | 0.0       | 1005814-34 | <0.050      | <1.7        | <3.4        | <0.0010            | 17.2             |
| 25                  |             |       |         |                                                                                                                  |                                                                                                                                                                   |           |            |             |             |             |                    |                  |
| 30                  | SS          | SS/SL |         |                                                                                                                  | 28 ft. Lithology change hard sandstone or<br>siltstone (drillers report "gravels")                                                                                | 0.0       | 1005814-35 | <0.050      | <1.7        | <3.4        | <0.0010            | 150              |
| 35                  |             |       |         |                                                                                                                  | 30 ft. SAND and poorly consolidated<br>SANDSTONE/SILTSTONE, light brown with white<br>streaks, sandstone soft, sand very fine grained,<br>no H/C staining or odor |           |            |             |             |             |                    |                  |
| 40                  | SS          | SP/SS |         |                                                                                                                  | 40 ft. SAND and SANDSTONE/SILTSTONE,<br>sandstone "cookies," poorly consolidated,<br>cementing from soft to hard, no H/C staining or<br>odor                      | 0.0       | 1005814-36 | <0.050      | <1.7        | <3.4        | <0.0010            | 120              |
| 45                  |             |       |         |                                                                                                                  |                                                                                                                                                                   |           |            |             |             |             |                    |                  |
| 50                  | SS          |       |         |                                                                                                                  | 50 ft. SAND and SANDSTONE/SILTSTONE as<br>above, better cemented, white streaks with color<br>white to light brown, no H/C staining or odor                       | 1.2       | 1005814-37 | <0.050      | <1.7        | <3.4        | <0.0010            | 79               |
| 55                  |             |       |         |                                                                                                                  |                                                                                                                                                                   |           |            |             |             |             |                    |                  |
| 60                  | SS          | SP    |         |                                                                                                                  | 60 ft. SAND, very light brown with white streaks,<br>very fine grained, minor sandstone/siltstone<br><5%, dry, no H/C staining or odor                            | 0.7       | 1005814-38 | <0.050      | <1.7        | <3.4        | <0.0010            | 40.3             |
| 65                  |             |       |         |                                                                                                                  |                                                                                                                                                                   |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 120 ft. and completed as MW-17  
Sampled every 10 ft. to saturation.  
Depth to water 5/23/10 101.25 ft. BLS.  
H/C - Hydrocarbon

Low-level BTEX 0-2 ft. is toluene, no benzene detected.



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## LOG OF BORING MW-17

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Monitor Well 17  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 43.77", W103° 18' 13.68"

Date, Time Started : 05/23/10, 1230

Date, Time Complete : 05/23/10, 1700

Hole Diameter : 8 1/4 in.

Drilling Method : Hollow Stem Auger

Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells

Sampling Method : 24-in. Split spoon with  
downhole hammer

Logged By : David Boyer, PG

Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                      | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                           |           |            |             |             |             |                    |                  |
| 65                  |             | SP    |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         | 70 ft. SILTY SAND, light brown, very fine<br>grained, occasional small sandstone/siltstone<br>chips/fragments 1/4-3/8 in., no H/C staining or<br>odor | 0.3       | 1005814-39 | <0.050      | <1.7        | <3.4        | <0.0010            | 10.6             |
| 75                  |             | SM    |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 80                  | SS          |       |         | 80 ft. SAND, some silt, occasional soft<br>sandstone, sand light brown, dry, no H/C staining<br>or odor                                               | 1.1       | 1005814-40 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.24             |
| 85                  |             | SP    |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, light brown, very fine grained,<br>slightly damp, no H/C staining or odor                                                                | 0.9       | 1005814-41 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 95                  |             | SP/SL |         | 91-95 ft. SAND and SILTSTONE cuttings,<br>cemented siltstone fragments                                                                                |           |            |             |             |             |                    |                  |
| 100                 | SS          |       |         | 100 ft. SAND, brown, very fine grained, H2O<br>saturated, minor sandstone, no H/C staining or<br>odor                                                 | 0.7       | 1005814-42 | <0.050      | <1.7        | <3.4        | <0.0010            | 47.9             |
| 105                 |             | SP    |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 110                 | CT          |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 115                 |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 120 ft. and completed as MW-17

Sampled every 10 ft. to saturation.

Depth to water 5/23/10 101.25 ft. BLS.

H/C - Hydrocarbon

Low-level BTEX 0-2 ft. is toluene, no benzene detected.



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**LOG OF BORING MW-18**

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Monitor Well 18  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 39.52", W103° 18' 05.09"

Date, Time Started : 05/10/10, 0930  
Date, Time Complete : 05/18/10, 1730  
Hole Diameter : 8 1/4 in.  
Drilling Method : See notes  
Initial Drilling Equip. : Air Rotary

Final Drilling Equip : CME-85 HSA  
Completed By : WDC Drilling and Wells  
Sampling Method : See notes  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample<br>Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5', 5', 10')<br>CT Auger Cuttings<br>NR No recovery                               | PID<br>(ppm) | Lab No.    | GRO<br>(mg/Kg) | DRO<br>(mg/Kg) | MOR<br>(mg/Kg) | Total BTEX<br>(mg/Kg) | Chloride<br>(mg/Kg) |
|---------------------|----------------|-------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|----------------|----------------|----------------|-----------------------|---------------------|
|                     |                |       |         | DESCRIPTION                                                                                                                                       |              |            |                |                |                |                       |                     |
| 0                   | CB             | TS    |         | 0-1 Topsoil, hydrocarbon stained.                                                                                                                 | --           | 1005382-01 | <0.050         | 100            | 32             | 0.0031 (T)            | 12.4                |
| 5                   |                | CA    |         | 2-5 ft. CALICHE, hard drilling<br>5-10 ft. CALICHE, creme color, very hard.                                                                       | 0.0          |            |                |                |                |                       |                     |
| 10                  | CT             |       |         | 10 ft. Cuttings, CALICHE with minor sand, very fine grained, caliche rock in tip.                                                                 | 0.0          | 1005382-02 | <0.050         | 6.9            | <3.4           | <0.0010               | 16.9                |
| 15                  |                | SP/CA |         | 11 ft. SAND-CALICHE mix, sand light brown, very fine grained                                                                                      |              |            |                |                |                |                       |                     |
|                     |                | SP/SS |         | 15 ft. SAND and SANDSTONE, very fine grained                                                                                                      |              |            |                |                |                |                       |                     |
| 20                  | CT             |       |         | 19-20 ft. SANDSTONE, light brown, very fine grained, well cemented, sample from cuttings.                                                         | 0.0          | 1005382-03 | <0.050         | <1.7           | <3.4           | <0.0010               | 14.9                |
| 25                  |                | SS    |         | 24 ft. SANDSTONE, hard                                                                                                                            |              |            |                |                |                |                       |                     |
|                     | CB             |       |         | 24.5 ft. SAND, light brown, very fine grained, dry, no H/C staining or odor                                                                       | 9.1          | 1005382-04 | <0.050         | 3.9            | 6.8            | <0.0010               | 18.0                |
| 30                  |                |       |         | 25 ft. SANDSTONE, hard                                                                                                                            |              |            |                |                |                |                       |                     |
|                     |                |       |         | 27-28 ft. SANDSTONE, very hard                                                                                                                    |              |            |                |                |                |                       |                     |
| 35                  |                |       |         | 30-40 ft. SANDSTONE and SAND, sandstone poorly cemented, very friable, sand light brown, very fine grained, uniform, dry, no H/C staining or odor | 1.60.0       | 1005382-05 | <0.050         | <1.7           | 3.8            | <0.0010               | 52.1                |
| 40                  | CB             |       |         | 40-50 ft. SANDSTONE, very friable, poorly cemented, well consolidated, sand light brown, very fine grained, dry, no H/C staining or odor          | 0.0          | 1005382-06 | <0.050         | <1.7           | <3.4           | <0.0010               | 50.3                |
| 45                  |                | SS/SP |         |                                                                                                                                                   |              |            |                |                |                |                       |                     |
| 50                  | CB             |       |         |                                                                                                                                                   |              |            |                |                |                |                       |                     |
| 55                  |                |       |         | 50-60 ft. Hard drilling at 53 ft, sandstone jammed in tip, soft from 54-60 (likely sand).                                                         | 0.0          | 1005382-07 | <0.050         | 6.0            | 58             | <0.0010               | 42.7                |
| 60                  | CT             |       |         |                                                                                                                                                   |              |            |                |                |                |                       |                     |
| 65                  |                | SS    |         | 60-70 ft. SANDSTONE, very friable, poorly cemented, well consolidated.                                                                            |              |            |                |                |                |                       |                     |

**Notes:**

Initial drilling 5/10 to 5/14 by Eco/Enviro Drilling, Lovington using GEFCO SD-200 air rig with 10 ft. core barrel. Stuck at 90 ft. Used air with foam, stuck at 93 ft. Rigged up with mud, lost circulation 124-129 ft. Well redrilled to 125 ft. and completed by WDC on 5/18. Sample at 90 feet from cuttings with possible cross-contamination from air compressor oil. Low level BTEX are ethylbenzene and xylenes, no benzene detected. H/C - hydrocarbon





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## LOG OF BORING MW-18

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Monitor Well 18  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Date, Time Started : 05/10/10, 0930  
Date, Time Complete : 05/18/10, 1730  
Hole Diameter : 8 1/4 in.  
Drilling Method : See notes  
Initial Drilling Equip. : Air Rotary

Final Drilling Equip : CME-85 HSA  
Completed By : WDC Drilling and Wells  
Sampling Method : See notes  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

Lea County, New Mexico  
N32° 52' 39.52", W103° 18' 05.09"

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5', 5', 10')<br>CT Auger Cuttings<br>NR No recovery | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|---------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                         |           |            |             |             |             |                    |                  |
| 65                  |             |       |         |                                                                                                                     |           |            |             |             |             |                    |                  |
| 70                  | CB          |       |         | 69-70 ft. Drill bit difficult to recover, sand jamming.                                                             | 0.0       | 1005382-08 | <0.050      | <1.7        | <3.4        | <0.0010            | 70.5             |
| 75                  |             |       |         |                                                                                                                     |           |            |             |             |             |                    |                  |
| 80                  | CB          | SS    |         | 70-80 ft. SANDSTONE, soft, very friable, poorly cemented, well consolidated.                                        | 0.0       | 1005382-09 | <0.050      | <1.7        | <3.4        | <0.0010            | 44.1             |
| 85                  |             |       |         |                                                                                                                     |           |            |             |             |             |                    |                  |
| 90                  | CT          |       |         | 90 ft. Lost circulation, core and rods stuck                                                                        | --        | 1005714-01 | <0.050      | 20          | 130         | 0.0056 (E,X)       | 25.7             |
| 95                  |             |       |         | 95 ft. Core shows small non-sandstone, non-limestone gravels 1/8-1/4 in.                                            |           |            |             |             |             |                    |                  |
| 100                 |             | SS/GP |         | 100 ft. Harder drilling, SANDSTONE, well cemented, possible small gravels.                                          |           |            |             |             |             |                    |                  |
| 105                 |             |       |         |                                                                                                                     |           |            |             |             |             |                    |                  |
| 110                 | CT          |       |         |                                                                                                                     |           |            |             |             |             |                    |                  |
| 115                 |             | SP/SS |         | 110 ft. SAND, light brown, very fine grained with sandstone.                                                        |           |            |             |             |             |                    |                  |
| 120                 |             |       |         | 120 ft. SAND, light brown, very fine grained with sandstone.                                                        |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                     |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                     |           |            |             |             |             |                    |                  |

### Notes:

Initial drilling 5/10 to 5/14 by Eco/Enviro Drilling, Lovington using GEFCO SD-200 air rig with 10 ft. core barrel. Stuck at 90 ft. Used air with foam, stuck at 93 ft. Rigged up with mud, lost circulation 124-129 ft. Well redrilled to 125 ft. and completed by WDC on 5/18. Sample at 90 feet from cuttings with possible cross-contamination from air compressor oil. Low level BTEX are ethylbenzene and xylenes, no benzene detected. H/C - hydrocarbon



**Safety & Environmental  
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## LOG OF BORING MW-19

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Monitor Well 19  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 36.50", W103° 18' 02.25"

Date, Time Started : 05/19/10, 0800  
Date, Time Complete : 05/19/10, 1500  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                      |           |            |             |             |             |                    |                  |
| 0                   |             |       |         | 0-8 ft. Topsoil, dark brown loam                                                                                 |           |            |             |             |             |                    |                  |
| 5                   |             | TS    |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 10                  | CT          | CA/SM |         | 10 ft. CALICHE and SILTY SAND, no H/C staining or odor                                                           | 0.0       | 1005714-02 | <0.050      | <1.7        | 12          | <0.0010            | 1,620            |
| 12.5                |             | SS    |         | 12.5 ft. Weathered SANDSTONE                                                                                     |           |            |             |             |             |                    |                  |
| 15                  |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 20                  | SS          | SP    |         | 20 ft. SAND, light brown, very fine grained, dry, no H/C staining or odor                                        | 0.0       | 1005714-03 | <0.050      | <1.7        | <3.4        | <0.0010            | 153              |
| 25                  |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 30                  | CT          |       |         | 30 ft. SANDSTONE, hard, light brown, sample sand from cuttings, no H/C staining or odor                          | 0.0       | 1005714-04 | <0.050      | <1.7        | <3.4        | <0.0010            | 268              |
| 35                  |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 40                  | CT          | SS    |         | 40 ft. SANDSTONE, loosely consolidated, well cemented, sample from cuttings, no H/C staining or odor             | 0.0       | 1005714-05 | <0.050      | <1.7        | <3.4        | <0.0010            | 144              |
| 45                  |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 50                  | SS          |       |         | 50 ft. SANDSTONE and SAND, light brown, very fine grained, no H/C staining or odor                               | 0.0       | 1005714-06 | <0.050      | <1.7        | <3.4        | <0.0010            | 119              |
| 55                  |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 60                  | SS          | SS/SP |         | 60 ft. SANDSTONE and SAND, light brown, very fine grained, no H/C staining or odor                               | 0.0       | 1005714-07 | <0.050      | <1.7        | <3.4        | <0.0010            | 99.2             |
| 65                  |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |

### Notes:

Drilled to 120 ft. and completed as MW-19  
Sampled every 10 ft. to saturation.  
Depth to water 5/19/10 98.3 ft. BLS.  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING MW-19

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Monitor Well 19  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 36.50", W103° 18' 02.25"

Date, Time Started : 05/19/10, 0800

Date, Time Complete : 05/19/10, 1500

Hole Diameter : 8 1/4 in.

Drilling Method : Hollow Stem Auger

Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells

Sampling Method : 24-in. Splitspoon with

downhole hammer

Logged By : David Boyer, PG

Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                      |           |            |             |             |             |                    |                  |
| 65                  |             | SS/SP |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         | 70 ft. SAND with SANDSTONE/SILTSTONE, light brown, no H/C staining or odor                                       | 0.0       | 1005714-08 | <0.050      | <1.7        | <3.4        | <0.0010            | 107              |
| 75                  |             | SP/SS |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 80                  | SS          |       |         | 80 ft. SAND, light brown, very fine grained, uniform, damp, no H/C staining or odor                              | 0.0       | 1005714-09 | <0.050      | <1.7        | <3.4        | <0.0010            | 41.8             |
| 85                  |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, brown, very fine grained, minor sandstone, no H/C staining or odor                                  | 0.0       | 1005714-10 | <0.050      | <1.7        | <3.4        | <0.0010            | 55.2             |
| 95                  |             | SP    |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 100                 | SS          |       |         | 100 ft. SAND, brown, very fine grained, H2O saturated, no H/C staining or odor                                   | 0.0       | 1005714-11 | <0.050      | <1.7        | <3.4        | <0.0010            | 206              |
| 105                 |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 110                 | CT          |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 115                 |             | SS    |         | 113-114 ft. Hard SANDSTONE (driller reports as "gravels")                                                        |           |            |             |             |             |                    |                  |
|                     |             | SP    |         | SAND, brown, very fine grained, H2O saturated                                                                    |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                  |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 120 ft. and completed as MW-19

Sampled every 10 ft. to saturation.

Depth to water 5/19/10 98.3 ft. BLS.

H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

**LOG OF BORING MW-20**

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Monitor Well 20  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 31.47", W103° 18' 02.32"

Date, Time Started : 05/19/10, 0800

Date, Time Complete : 05/19/10, 1500

Hole Diameter : 8 1/4 in.

Drilling Method : Hollow Stem Auger

Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells

Sampling Method : 24-in. Splitspoon with  
downhole hammer

Logged By : David Boyer, PG

Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type                                                                                                                                                  | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                  |           |            |             |             |             |                    |                  |
| 0                   |             |       |         | 0-5 ft. CALICHE, hard                                                                                                                                        |           |            |             |             |             |                    |                  |
| 5                   |             | CA    |         |                                                                                                                                                              |           |            |             |             |             |                    |                  |
| 10                  | CT          | SM/CA |         | 5-16 ft. SILTY SAND/SANDY SILT, very light brown, very fine grained, minor rock - CALICHE, weathered, rock in core, no H/C staining or odor                  | 2.5       | 1005714-12 | <0.050      | <1.7        | <3.4        | <0.0010            | 11.6             |
| 15                  |             |       |         |                                                                                                                                                              |           |            |             |             |             |                    |                  |
| 20                  | SS          | SP    |         | 17 ft. SAND, light brown, very fine grained, uniform, no H/C staining or odor<br>20 ft. SAND, light brown, very fine grained, moist, no H/C staining or odor | 0.1       | 1005714-13 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.87             |
| 25                  |             |       |         |                                                                                                                                                              |           |            |             |             |             |                    |                  |
| 30                  | SS          | SL/SS |         | 27 ft. SILTSTONE/SANDSTONE, very fine grained, hard, well cemented with silica                                                                               | 0.1       | 1005714-14 | <0.050      | <1.7        | <3.4        | <0.0010            | 13.5             |
| 35                  |             | SM/SL |         | 30 ft. SILTY SAND with minor SILTSTONE, sand light brown, very fine grained, dry, no H/C staining or odor                                                    |           |            |             |             |             |                    |                  |
| 40                  | CT          |       |         | 40 ft. SILTSTONE/SANDSTONE, fragments, hard drilling, sample from cuttings.                                                                                  | 0.3       | 1005714-15 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 45                  |             |       |         |                                                                                                                                                              |           |            |             |             |             |                    |                  |
| 50                  | CT          | SL/SS |         | 50 ft. SILTSTONE/SANDSTONE, fragments, hard drilling, sample from cuttings.                                                                                  | 0.0       | 1005714-16 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 55                  |             |       |         |                                                                                                                                                              |           |            |             |             |             |                    |                  |
| 60                  | SS          | SL/SM |         | 60 ft. SILTSTONE/SANDSTONE, less than above, more SILTY SAND, light brown, very fine grained, no H/C staining or odor                                        | 0.0       | 1005714-17 | <0.050      | <1.7        | <3.4        | <0.0010            | 11.3             |
| 65                  |             |       |         |                                                                                                                                                              |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 115 ft. and completed as MW-20

Sampled every 10 ft. to saturation.

Depth to water 5/20/10 97.2 ft. BLS.

H/C - Hydrocarbon

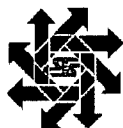


**Safety & Environmental  
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## LOG OF BORING MW-20

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| Monitor Well 20<br>Navajo Refining Company, Lea Refinery<br>Section 36, T16S, R36E                                                                      |             |       |         | Date, Time Started : 05/19/10, 0800                                                                                 | Drilled By : WDC Drilling and Wells      |            |             |             |             |                    |                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|---------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------|-------------|-------------|-------------|--------------------|------------------|
| Lea County, New Mexico<br>N32° 52' 31.47", W103° 18' 02.32"                                                                                             |             |       |         | Date, Time Complete : 05/19/10, 1500                                                                                | Sampling Method : 24-in. Splitspoon with |            |             |             |             |                    |                  |
|                                                                                                                                                         |             |       |         | Hole Diameter : 8 1/4 in.                                                                                           | : downhole hammer                        |            |             |             |             |                    |                  |
|                                                                                                                                                         |             |       |         | Drilling Method : Hollow Stem Auger                                                                                 | Logged By : David Boyer, PG              |            |             |             |             |                    |                  |
|                                                                                                                                                         |             |       |         | Drilling Equipment : CME-85                                                                                         | Company Rep. : Steve Terry, Navajo       |            |             |             |             |                    |                  |
| Depth<br>in<br>Feet                                                                                                                                     | Sample Type | USCS  | GRAPHIC | Sample Type                                                                                                         | PID (ppm)                                | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|                                                                                                                                                         |             |       |         | SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                   |                                          |            |             |             |             |                    |                  |
|                                                                                                                                                         |             |       |         | DESCRIPTION                                                                                                         |                                          |            |             |             |             |                    |                  |
| 65                                                                                                                                                      |             | SL/SM |         |                                                                                                                     |                                          |            |             |             |             |                    |                  |
| 70                                                                                                                                                      | SS          |       |         | 70 ft. SILTY SAND, with soft poorly consolidated SANDSTONE, light brown, very fine grained, no H/C staining or odor | 0.1                                      | 1005714-18 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 75                                                                                                                                                      |             | SM/SS |         |                                                                                                                     |                                          |            |             |             |             |                    |                  |
| 80                                                                                                                                                      | SS          |       |         | 80 ft. SAND, light brown, very fine grained, minor sandstone chips/fragments to 1/4 in., no H/C staining or odor    | 0.0                                      | 1005714-19 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 85                                                                                                                                                      |             |       |         |                                                                                                                     |                                          |            |             |             |             |                    |                  |
| 90                                                                                                                                                      | SS          |       |         | 90 ft. SAND, light brown, very fine grained, uniform, no H/C staining or odor                                       | 10.2                                     | 1005714-20 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 95                                                                                                                                                      | SS          |       |         | 95 ft. SAND, light brown, very fine grained, uniform, moist, no H/C staining or odor                                | 4.8                                      | 1005714-21 | <0.050      | <1.7        | 5.1         | <0.0010            | 6.89             |
| 100                                                                                                                                                     |             | SP    |         |                                                                                                                     |                                          |            |             |             |             |                    |                  |
| 105                                                                                                                                                     | CT          |       |         |                                                                                                                     |                                          |            |             |             |             |                    |                  |
| 110                                                                                                                                                     |             |       |         |                                                                                                                     |                                          |            |             |             |             |                    |                  |
| 115                                                                                                                                                     |             |       |         |                                                                                                                     |                                          |            |             |             |             |                    |                  |
| 120                                                                                                                                                     |             |       |         |                                                                                                                     |                                          |            |             |             |             |                    |                  |
| 125                                                                                                                                                     |             |       |         |                                                                                                                     |                                          |            |             |             |             |                    |                  |
| 130                                                                                                                                                     |             |       |         |                                                                                                                     |                                          |            |             |             |             |                    |                  |
| Notes:<br>Drilled to 115 ft. and completed as MW-20<br>Sampled every 10 ft. to saturation.<br>Depth to water 5/20/10 97.2 ft. BLS.<br>H/C - Hydrocarbon |             |       |         |                                                                                                                     |                                          |            |             |             |             |                    |                  |



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## LOG OF BORING MW-21

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Monitor Well 21  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

Lea County, New Mexico  
N32° 52' 32.18", W103° 17' 54.98"

Date, Time Started : 05/21/10, 0730  
Date, Time Complete : 05/21/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                        | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                             |           |            |             |             |             |                    |                  |
| 0                   |             | CA    |         | 0-2 ft. Hard CALICHE                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 5                   |             | CA/SM |         | 2-10 ft. CALICHE and SILTY SAND, light brown,<br>very fine grained, no H/C staining or odor                                                                             |           |            |             |             |             |                    |                  |
| 10                  | SS          |       |         | 11-12 ft. SAND, light brown, very fine grained,<br>uniform, slightly moist                                                                                              | 0.0       | 1005946-22 | <0.050      | <1.7        | <3.4        | <0.0010            | 5.52             |
| 15                  |             | SP    |         | 20 ft. SAND, light brown, very fine grained,<br>uniform, slightly moist, no H/C staining or odor                                                                        | 0.0       | 1005946-23 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.76             |
| 20                  | SS          |       |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 25                  |             |       |         | 25 ft. Lithology change                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 30                  | SS          |       |         | 30 ft. CALICHE and SILTY SAND, very light<br>brown to creme color, no H/C staining or odor                                                                              | 0.0       | 1005946-24 | <0.050      | <1.7        | <3.4        | <0.0010            | 5.80             |
| 35                  |             | CA/SM |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 40                  | SS          |       |         | 40 ft. SAND, light brown, very fine grained, with<br>minor siltstone and sandstone, siltstone very<br>hard, fractured chips, sandstone soft, no H/C<br>staining or odor | 0.0       | 1005946-25 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 45                  |             | SP    |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 50                  | SS          |       |         | 50 ft. SAND, light brown, very fine grained, minor<br>sandstone, dry, no H/C staining or odor                                                                           | 0.0       | 1005946-26 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 55                  |             |       |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 60                  | SS          |       |         |                                                                                                                                                                         | 0.1       | 1005946-27 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 65                  |             | SP/SS |         |                                                                                                                                                                         |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 110 ft. and completed as MW-21

Sampled every 10 ft. to saturation.

Depth to water 5/21/10 94.1 ft. BLS.

H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING MW-21

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Monitor Well 21  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

Lea County, New Mexico  
N32° 52' 32.18", W103° 17' 54.98"

Date, Time Started : 05/21/10, 0730  
Date, Time Complete : 05/21/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                           | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                |           |            |             |             |             |                    |                  |
| 65                  |             |       |         |                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 70                  | SS          | SP/SS |         | 70 ft. SAND and SANDSTONE, sand light brown, very fine grained, sandstone poorly consolidated, poorly cemented, no H/C staining or 71 ft. Lithology change | 0.0       | 1005946-28 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 75                  |             |       |         |                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 80                  | SS          | SP    |         | 80 ft. SAND, light brown, very fine grained, dry, with minor sandstone, soft, poorly cemented, no H/C staining or odor                                     | 0.1       | 1005946-29 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 85                  |             |       |         |                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, light brown, very fine grained, dry, with minor sandstone as above, no H/C staining or odor                                                   | 0.0       | 1005946-30 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.16             |
| 95                  | SS          |       |         | 95 ft. SAND and SANDSTONE, sand brown, very fine grained, H2O saturated, sandstone frequent, well cemented, no H/C staining or odor                        | --        | 1005946-31 | <0.050      | <1.7        | <3.4        | <0.0010            | 27.6             |
| 100                 |             |       |         |                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 105                 | CT          | SP/SS |         |                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 110                 |             |       |         |                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 115                 |             |       |         |                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                                            |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                                            |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 110 ft. and completed as MW-21

Sampled every 10 ft. to saturation.

Depth to water 5/21/10 94.1 ft. BLS.

H/C - Hydrocarbon





**Safety & Environmental  
Solutions, Inc.**

## LOG OF BORING MW-22

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Monitor Well 22  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

Date, Time Started : 05/26/10, 0750  
Date, Time Complete : 05/26/10, 1400  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

Lea County, New Mexico  
N32° 52' 35.25", W103° 17' 49.24"

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                        | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                             |           |            |             |             |             |                    |                  |
| 0                   |             | TS    |         | 0-2 ft. Topsoil, dark brown loam, organic                                                                                               |           |            |             |             |             |                    |                  |
|                     |             | CA    |         | 2-5 ft. CALICHE, no H/C staining or odor                                                                                                |           |            |             |             |             |                    |                  |
| 5                   |             |       |         |                                                                                                                                         |           |            |             |             |             |                    |                  |
|                     | CT          |       |         | 5-10 ft. From cuttings: CALICHE with SILTY SAND, sand very light brown, majority caliche and caliche fragments, no H/C staining or odor | 0.3       | 1005946-12 | <0.050      | <1.7        | <3.4        | <0.0010            | 9.35             |
| 10                  |             | CA/SM |         |                                                                                                                                         |           |            |             |             |             |                    |                  |
| 15                  |             |       |         | 15-16 ft. Lithologic transition                                                                                                         |           |            |             |             |             |                    |                  |
| 20                  |             |       |         | 20 ft. SAND with some silt, minor caliche rock, sand light brown, very fine grained, dry, no H/C staining or odor                       | 0.1       | 1005946-13 | <0.050      | <1.7        | <3.4        | <0.0010            | 88.5             |
| 25                  |             | SP/SM |         |                                                                                                                                         |           |            |             |             |             |                    |                  |
| 30                  |             |       |         | 30 ft. SAND, light brown, very fine grained, dry, sandstone rock <5%, no H/C staining or odor                                           | 0.8       | 1005946-14 | <0.050      | <1.7        | <3.4        | <0.0010            | 14.3             |
| 35                  |             |       |         |                                                                                                                                         |           |            |             |             |             |                    |                  |
| 40                  |             |       |         | 40 ft. SAND, light brown, very fine grained, dry, sandstone rock <5%, no H/C staining or odor                                           | 0.0       | 1005946-15 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 45                  |             | SP    |         |                                                                                                                                         |           |            |             |             |             |                    |                  |
| 50                  |             |       |         | 50 ft. SAND, light brown, very fine grained, dry, uniform, no sandstone, no H/C staining or odor                                        | 0.9       | 1005946-16 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 55                  |             |       |         |                                                                                                                                         |           |            |             |             |             |                    |                  |
| 60                  |             |       |         | 60 ft. SAND, light brown, very fine grained, dry, transition to occasional hard sandstone/siltstone, no H/C staining or odor            | 0.6       | 1005946-17 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.20             |
| 65                  |             | SP/SS |         |                                                                                                                                         |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 110 ft. and completed as MW-22

Sampled every 10 ft. to saturation.

Depth to water 5/25/10 92.9 ft. BLS.

H/C - Hydrocarbon



**Safety & Environmental  
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## LOG OF BORING MW-22

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Monitor Well 22  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

Date, Time Started : 05/26/10, 0750  
Date, Time Complete : 05/26/10, 1400  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

Lea County, New Mexico  
N32° 52' 35.25", W103° 17' 49.24"

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery           | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|----------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                |           |            |             |             |             |                    |                  |
| 65                  |             |       |         |                                                                                                                            |           |            |             |             |             |                    |                  |
| 70                  | SS          | SP/SS |         | 70 ft. SAND, light brown, very fine grained, dry, increasing sandstone/siltstone, hard, "cookies", no H/C staining or odor | 0.5       | 1005946-18 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.75             |
| 75                  |             |       |         |                                                                                                                            |           |            |             |             |             |                    |                  |
| 80                  | SS          | SP    |         | 80 ft. SAND, light brown, very fine grained, slightly damp, no sandstone/siltstone, no H/C staining or odor                | 0.5       | 1005946-19 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 85                  |             |       |         |                                                                                                                            |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, light brown, very fine grained, very moist, no sandstone/siltstone, no H/C staining or odor                   | 0.4       | 1005946-20 | <0.050      | <1.7        | <3.4        | <0.0010            | 13.2             |
| 95                  | SS          |       |         | 95 ft. SAND, brown, very fine grained, H2O saturated, no sandstone/siltstone, no H/C staining or odor                      | --        | 1005946-21 | <0.050      | <1.7        | <3.4        | <0.0010            | 9.76             |
| 100                 |             | CT    |         |                                                                                                                            |           |            |             |             |             |                    |                  |
| 105                 |             |       |         |                                                                                                                            |           |            |             |             |             |                    |                  |
| 110                 |             |       |         |                                                                                                                            |           |            |             |             |             |                    |                  |
| 115                 |             |       |         |                                                                                                                            |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                            |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                            |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                            |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 110 ft. and completed as MW-22  
Sampled every 10 ft. to saturation.  
Depth to water 5/25/10 92.9 ft. BLS.  
H/C - Hydrocarbon



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## LOG OF BORING MW-23

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Monitor Well 23  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

Date, Time Started : 05/26/10, 0750  
Date, Time Complete : 05/26/10, 1400  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

Lea County, New Mexico  
N32° 52' 38.06", W103° 17' 56.04"

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                               | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 0                   |             | CA    |         | 0-4 ft. Hard CALICHE                                                                                                                                                                           |           |            |             |             |             |                    |                  |
| 5                   |             | CA/SM |         |                                                                                                                                                                                                |           |            |             |             |             |                    |                  |
| 10                  | SS          |       |         | CALICHE and SILTY SAND (4-12 ft.), no H/C staining or odor                                                                                                                                     | 0.0       | 1005946-22 | <0.050      | 4.2         | 54          | <0.0010            | 6.70             |
| 15                  |             |       |         |                                                                                                                                                                                                |           |            |             |             |             |                    |                  |
| 20                  | SS          | SP    |         | 20 ft. SAND, reddish-brown, very fine grained, uniform, damp, no H/C staining or odor                                                                                                          | 0.0       | 1005946-23 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.80             |
| 25                  |             |       |         |                                                                                                                                                                                                |           |            |             |             |             |                    |                  |
| 30                  | SS          |       |         | 27 ft. From driller: "gravels," possible hard sandstone/siltstone lens.                                                                                                                        | 0.1       | 1005946-24 | <0.050      | 2.8         | 31          | <0.0010            | 11.9             |
| 35                  |             | SS/SL |         | 30 ft. SANDSTONE and SILTSTONE with SAND, sandstone soft, siltstone very hard, sand brown to light brown, occasional white streaks, very fine grained, slightly moist, no H/C staining or odor |           |            |             |             |             |                    |                  |
| 40                  | SS          |       |         | 40 ft. SILTY SAND with intermittent SANDSTONE and SILTSTONE, sand light brown, very fine grained, no H/C staining or odor                                                                      | 0.1       | 1005946-25 | <0.050      | <1.7        | 11          | <0.0010            | 10.3             |
| 45                  |             | SM/SS |         |                                                                                                                                                                                                |           |            |             |             |             |                    |                  |
| 50                  | SS          |       |         | 50 ft. SAND with occasional soft SANDSTONE, sand light brown, very fine grained, dry, sandstone poorly cemented (friable with fingers), no H/C staining or odor                                | 0.0       | 1005946-26 | <0.050      | <1.7        | 6.1         | <0.0010            | 10.1             |
| 55                  |             | SP/SS |         |                                                                                                                                                                                                |           |            |             |             |             |                    |                  |
| 60                  | SS          |       |         | 60 ft. SILTY SAND with hard SILTSTONE lenses, sand very light brown, very fine grained, no H/C staining or odor                                                                                | 0.3       | 1005946-27 | <0.050      | 2.0         | 17          | <0.0010            | 12.6             |
| 65                  |             | SM/SL |         |                                                                                                                                                                                                |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 115 ft. and completed as MW-23

Sampled every 10 ft. to saturation.

Depth to water 5/26/10 96.9 ft. BLS.

H/C - Hydrocarbon



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## LOG OF BORING MW-23

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Monitor Well 23  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

Lea County, New Mexico  
N32° 52' 38.06", W103° 17' 56.04"

Date, Time Started : 05/26/10, 0750  
Date, Time Complete : 05/26/10, 1400  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                     | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|--------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                          |           |            |             |             |             |                    |                  |
| 65                  |             | SM/SL |         |                                                                                                                                      |           |            |             |             |             |                    |                  |
| 70                  | SS          | SP    |         | 70 ft. SAND, light brown, very fine grained, no siltstone seen, possible soft sandstone, no H/C staining or odor                     | 0.4       | 1005946-28 | <0.050      | <1.7        | 7.3         | <0.0010            | 10.9             |
| 75                  |             |       |         |                                                                                                                                      |           |            |             |             |             |                    |                  |
| 80                  | SS          | SP/SS |         | 80 ft. SAND and soft SANDSTONE, some hard siltstone, light brown with white streaks, sand very fine grained, no H/C staining or odor | 0.5       | 1005946-29 | <0.050      | <1.7        | 5.4         | <0.0010            | 13.7             |
| 85                  |             |       |         |                                                                                                                                      |           |            |             |             |             |                    |                  |
| 90                  | SS          | SP    |         | 90 ft. SAND, light brown, very fine grained, uniform, slightly moist, no sandstone or siltstone, no H/C staining or odor             | 0.3       | 1005946-30 | <0.050      | <1.7        | <3.4        | <0.0010            | 9.57             |
| 95                  |             |       |         |                                                                                                                                      |           |            |             |             |             |                    |                  |
| 95                  | SS          | SP/SL |         | 95 ft. SAND and SILTSTONE, sand light brown, very fine grained, siltstone hard (fragments broken by hammer), no H/C staining or odor | 0.3       | 1005946-31 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.31             |
| 100                 |             |       |         |                                                                                                                                      |           |            |             |             |             |                    |                  |
| 100                 | SS          | SP    |         | 100 ft. SAND, brown, very fine grained, uniform, H2O saturated, no sandstone or siltstone                                            | --        | 1005946-32 | <0.050      | <1.7        | <3.4        | <0.0010            | 91.9             |
| 105                 |             |       |         |                                                                                                                                      |           |            |             |             |             |                    |                  |
| 105                 | CT          | SS/SL |         | 107-108 ft. SANDSTONE/SILTSTONE (from driller "gravels")                                                                             |           |            |             |             |             |                    |                  |
| 110                 |             | SP    |         | 108-115 ft. SAND (from cuttings)                                                                                                     |           |            |             |             |             |                    |                  |
| 115                 |             |       |         |                                                                                                                                      |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                      |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                      |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                      |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 115 ft. and completed as MW-23

Sampled every 10 ft. to saturation.

Depth to water 5/26/10 96.9 ft. BLS.

H/C - Hydrocarbon



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## LOG OF BORING MW-24

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Monitor Well 24  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

Lea County, New Mexico  
N32° 52' 43.51", W103° 17' 51.80"

Date, Time Started : 05/26/10, 1430  
Date, Time Complete : 05/27/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery | DESCRIPTION                                                                                                                           | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
| 0                   |             |       |         |                                                                                                                  | 0-5 ft. CALICHE rock with SILTY SAND, no H/C staining or odor                                                                         |           |            |             |             |             |                    |                  |
| 5                   |             | CA/SM |         |                                                                                                                  |                                                                                                                                       |           |            |             |             |             |                    |                  |
| 10                  |             | SM/CA |         |                                                                                                                  | 5-10 ft. SILTY SAND and CALICHE, sand light brown, very fine grained, dry, no H/C staining or odor                                    |           |            |             |             |             |                    |                  |
| 15                  |             | SS    |         |                                                                                                                  |                                                                                                                                       | 0.0       | 1005946-33 | <0.050      | <1.7        | <3.4        | <0.0010            | 17.3             |
| 20                  |             | SM/SL |         |                                                                                                                  | 10-20 ft. SILTY SAND with CALICHE and SILTSTONE, no H/C staining or odor                                                              |           |            |             |             |             |                    |                  |
| 25                  |             | SS    |         |                                                                                                                  |                                                                                                                                       | 0.0       | 1005946-34 | <0.050      | <1.7        | <3.4        | <0.0010            | 9.34             |
| 30                  |             | SM    |         |                                                                                                                  | 20 ft. SILTY SAND, very light brown with white streaks, minor siltstone, dry, no H/C staining or odor                                 |           |            |             |             |             |                    |                  |
| 35                  |             | SS    |         |                                                                                                                  |                                                                                                                                       | 0.2       | 1005946-35 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 40                  |             | SP    |         |                                                                                                                  | 30 ft. SAND, light brown with white streaks, very fine grained, dry, uniform, no H/C staining or odor                                 |           |            |             |             |             |                    |                  |
| 45                  |             | SS    |         |                                                                                                                  |                                                                                                                                       | 0.3       | 1005946-36 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.98             |
| 50                  |             | SM/SS |         |                                                                                                                  | 40 ft. SILTY SAND with poorly consolidated sandstone/siltstone, dry, no H/C staining or odor                                          |           |            |             |             |             |                    |                  |
| 55                  |             | SS    |         |                                                                                                                  |                                                                                                                                       | 0.3       | 1005946-37 | <0.050      | <1.7        | <3.4        | <0.0010            | 8.60             |
| 60                  |             | SP/SS |         |                                                                                                                  | 50 ft. SAND, light brown, very fine to fine grained, dry, with poorly consolidated sandstone/siltstone, no H/C staining or odor       |           |            |             |             |             |                    |                  |
| 65                  |             | SS    |         |                                                                                                                  |                                                                                                                                       | 0.5       | 1005946-38 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.79             |
|                     |             | SP/SS |         |                                                                                                                  | 60 ft. SAND, some silt, light brown, very fine to fine grained, with poorly consolidated sandstone/siltstone, no H/C staining or odor |           |            |             |             |             |                    |                  |

Notes:  
Drilled to 125 ft. and completed as MW-24  
Sampled every 10 ft. to saturation.  
Depth to water 5/27/10 104.6 ft. BLS.  
H/C - Hydrocarbon



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## LOG OF BORING MW-24

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Monitor Well 24  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

Lea County, New Mexico  
N32° 52' 43.51", W103° 17' 51.80"

Date, Time Started : 05/26/10, 1430  
Date, Time Complete : 05/27/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                      | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                           |           |            |             |             |             |                    |                  |
| 65                  |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
|                     |             | SP/SS |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         | 70 ft. SAND, some silt, little or no sandstone/siltstone, brown, slightly moist, no H/C staining or odor                                              | 0.2       | 1005946-39 | <0.050      | <1.7        | <3.4        | <0.0010            | 9.81             |
| 75                  |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 80                  | SS          | SP    |         | 80 ft. SAND, brown, very fine to fine grained, slightly moist, no sandstone/siltstone, no H/C staining or odor                                        | 0.6       | 1005946-40 | <0.050      | <1.7        | <3.4        | <0.0010            | 5.19             |
| 85                  |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, light brown, very fine grained, occasional sandstone/siltstone, well cemented with white streaks, slightly damp, no H/C staining or odor | 0.3       | 1005946-41 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 95                  | SS          | SP/SS |         | 95 ft. SAND, light brown, very fine grained, occasional sandstone/siltstone, well cemented with white streaks, dry, no H/C staining or odor           | 0.4       | 1005946-42 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 100                 | SS          |       |         | 100 ft. SAND, brown, fine grained, moist at tip, no sandstone/siltstone, no H/C staining and odor                                                     | 0.0       | 1005946-43 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 105                 | SS          |       |         | 105 ft. SAND, brown, very fine to fine grained, H2O saturated, no cohesiveness, no H/C staining or odor                                               | --        | 1005946-44 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 110                 |             | SP    |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 115                 | CT          |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 125 ft. and completed as MW-24  
Sampled every 10 ft. to saturation.  
Depth to water 5/27/10 104.6 ft. BLS.  
H/C - Hydrocarbon



**Safety & Environmental  
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## LOG OF BORING MW-25

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Monitor Well 25  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 42.46", W103° 18' 01.58"

Date, Time Started : 06/04/10, 1115  
Date, Time Complete : 06/05/10, 0800  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                               | PID<br>(ppm) | Lab No.    | GRO<br>(mg/Kg) | DRO<br>(mg/Kg) | MOR<br>(mg/Kg) | Total BTEX<br>(mg/Kg) | Chloride<br>(mg/Kg) |
|---------------------|-------------|-------|---------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|----------------|----------------|----------------|-----------------------|---------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                    |              |            |                |                |                |                       |                     |
| 0                   |             |       |         | 0-0.5 ft. Surface fill, overburden, no H/C staining or odor                                                                                    |              |            |                |                |                |                       |                     |
| 5                   |             | CA/SS |         | 0.5-1.5 ft. CALICHE                                                                                                                            |              |            |                |                |                |                       |                     |
|                     |             |       |         | 1.5-6 ft. CALICHE, and SANDSTONE gravel-sized fragments                                                                                        |              |            |                |                |                |                       |                     |
| 10                  | SS          |       |         | 10 ft. SILTY SAND and soft CALICHE with hard sandstone/siltstone pieces, sand light brown, very fine grained, dry, no H/C staining or odor     | 1.1          | 1006296-01 | <0.050         | <1.7           | <3.4           | <0.0010               | <5.00               |
| 15                  |             | SM/CA |         |                                                                                                                                                |              |            |                |                |                |                       |                     |
| 20                  | SS          |       |         | 20 ft. SILTY SAND, light brown, very fine grained, some soft sandstone, dry, no H/C staining or odor                                           | 2.1          | 1006296-02 | <0.050         | <1.7           | <3.4           | <0.0010               | <5.00               |
| 25                  |             | SM    |         |                                                                                                                                                |              |            |                |                |                |                       |                     |
| 30                  | SS          |       |         | 30 ft. SAND, light brown, very fine grained, slightly damp, hard sandstone/siltstone fragments <5%, no H/C staining or odor                    | 2.5          | 1006296-03 | <0.050         | <1.7           | <3.4           | <0.0010               | <5.00               |
| 35                  |             | SP    |         |                                                                                                                                                |              |            |                |                |                |                       |                     |
| 40                  | SS          |       |         | SAND light brown, very fine grained, with frequent (approx. 10%) SANDSTONE/SILTSTONE fragments, poor to well cemented, no H/C staining or odor | 2.6          | 1006296-04 | <0.050         | <1.7           | <3.4           | <0.0010               | 6.95                |
| 45                  |             | SP/SS |         |                                                                                                                                                |              |            |                |                |                |                       |                     |
| 50                  | SS          |       |         | 50 ft. SAND, light brown, very fine grained, compacted, dry, no H/C staining or odor                                                           | 1.9          | 1006296-05 | <0.050         | <1.7           | <3.4           | <0.0010               | 6.56                |
| 55                  |             | SP    |         |                                                                                                                                                |              |            |                |                |                |                       |                     |
| 60                  | SS          |       |         | 60 ft. SAND, light brown, very fine grained, dry, soft sandstone fragments <5%, no H/C staining or odor                                        | 1.7          | 1006296-06 | <0.050         | <1.7           | <3.4           | <0.0010               | 7.16                |
| 65                  |             |       |         |                                                                                                                                                |              |            |                |                |                |                       |                     |

**Notes:**

Drilled to 125 ft. and completed as MW-25  
Sampled every 10 ft. to saturation.  
Depth to water 6/4/10 107.0 ft. BLS.  
H/C - Hydrocarbon





**Safety & Environmental  
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## LOG OF BORING MW-25

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Monitor Well 25  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 42.46", W103° 18' 01.58"

Date, Time Started : 06/04/10, 1115

Date, Time Complete : 06/05/10, 0800

Hole Diameter : 8 1/4 in.

Drilling Method : Hollow Stem Auger

Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells

Sampling Method : 24-in. Splitspoon with  
downhole hammer

Logged By : David Boyer, PG

Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                   | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                        |           |            |             |             |             |                    |                  |
| 65                  |             |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 70                  | SS          | SP    |         | 70 ft. SAND, light brown, very fine grained, dry,<br>hard, well cemented sandstone fragments <5%,<br>no H/C staining or odor                                       | 1.1       | 1006296-07 | <0.050      | <1.7        | <3.4        | <0.0010            | 8.43             |
| 75                  |             |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 80                  | SS          | SP/SS |         | 80 ft. SAND, light brown, very fine grained, dry,<br>with approximately 5% SANDSTONE/SILTSTONE<br>fragments 1/4-1/2 in., well cemented, no H/C<br>staining or odor | 1.2       | 1006296-08 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.05             |
| 85                  |             |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 90                  | SS          | SP    |         | 90 ft. SAND, light brown, very fine grained,<br>uniform, moist, no sandstone fragments, no H/C<br>staining or odor                                                 | 3.2       | 1006296-09 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 95                  |             |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 100                 | SS          |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 105                 | SS          |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 110                 | SS          | SP    |         | 105 ft. SAND, brown, very fine grained, damp,<br>hard sandstone fragments <5%, no H/C staining<br>or odor                                                          | 2.1       | 1006296-11 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.40             |
| 115                 |             |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 120                 | CT          |       |         | 110 ft. SAND, brown, very fine grained, H2O<br>saturated, sandstone fragments <5%, no H/C<br>staining or odor                                                      | --        | 1006296-12 | <0.050      | <1.7        | <3.4        | <0.0010            | 37.9             |
| 125                 |             |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                                                    |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 125 ft. and completed as MW-25

Sampled every 10 ft. to saturation.

Depth to water 6/4/10 107.0 ft. BLS.

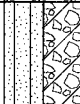
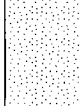
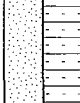
H/C - Hydrocarbon



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## LOG OF BORING MW-26

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| Monitor Well 26<br>Navajo Refining Company, Lea Refinery<br>Section 36, T16S, R36E                                                                      |             |       |                                                                                     | Date, Time Started : 06/02/10, 0800                                                                                                                            | Drilled By : WDC Drilling and Wells      |            |             |             |             |                    |                  |                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------|-------------|-------------|-------------|--------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lea County, New Mexico<br>N32° 52' 46.26", W103° 18' 01.21"                                                                                             |             |       |                                                                                     | Date, Time Complete : 06/02/10, 1200                                                                                                                           | Sampling Method : 24-in. Splitspoon with |            |             |             |             |                    |                  |                                                                                                                                                               |
|                                                                                                                                                         |             |       |                                                                                     | Hole Diameter : 8 1/4 in.                                                                                                                                      | : downhole hammer                        |            |             |             |             |                    |                  |                                                                                                                                                               |
|                                                                                                                                                         |             |       |                                                                                     | Drilling Method : Hollow Stem Auger                                                                                                                            | Logged By : David Boyer, PG              |            |             |             |             |                    |                  |                                                                                                                                                               |
|                                                                                                                                                         |             |       |                                                                                     | Drilling Equipment : CME-85                                                                                                                                    | Company Rep. : Steve Terry, Navajo       |            |             |             |             |                    |                  |                                                                                                                                                               |
| Depth<br>in<br>Feet                                                                                                                                     | Sample Type | USCS  | GRAPHIC                                                                             | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                               | PID (ppm)                                | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |                                                                                                                                                               |
| DESCRIPTION                                                                                                                                             |             |       |                                                                                     |                                                                                                                                                                |                                          |            |             |             |             |                    |                  |                                                                                                                                                               |
| 0                                                                                                                                                       |             | AR    |    | 0-1.5 ft. Surface fill                                                                                                                                         |                                          |            |             |             |             |                    |                  |                                                                                                                                                               |
|                                                                                                                                                         |             | CA    |    | 1.5-3.5 ft. CALICHE                                                                                                                                            |                                          |            |             |             |             |                    |                  |                                                                                                                                                               |
| 5                                                                                                                                                       | CT          |       |    | 3.5-10 ft. SILTY SAND with CALICHE, no H/C staining or odor                                                                                                    | 0.2                                      | 1006149-01 | <0.050      | <1.7        | 5.3         | <0.0010            | <5.00            |                                                                                                                                                               |
| 10                                                                                                                                                      |             | SM/CA |    | Sample at 10 ft. from cuttings                                                                                                                                 |                                          |            |             |             |             |                    |                  |                                                                                                                                                               |
| 15                                                                                                                                                      |             |       |                                                                                     |                                                                                                                                                                |                                          |            |             |             |             |                    |                  |                                                                                                                                                               |
| 20                                                                                                                                                      | SS          |       |   | 20 ft. SAND, minor caliche (<5%), sand light brown, very fine grained, slightly moist, no H/C staining or odor                                                 | 0.0                                      | 1006149-02 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |                                                                                                                                                               |
| 25                                                                                                                                                      |             |       |                                                                                     |                                                                                                                                                                |                                          |            |             |             |             |                    |                  |                                                                                                                                                               |
| 30                                                                                                                                                      | SS          |       |  | 30 ft. SAND, light brown, very fine grained, uniform, slightly damp, occasional white streaks, no H/C staining or odor                                         | 0.7                                      | 1006149-03 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |                                                                                                                                                               |
| 35                                                                                                                                                      |             | SP    |  |                                                                                                                                                                |                                          |            |             |             |             |                    |                  |                                                                                                                                                               |
| 40                                                                                                                                                      | SS          |       |  | 40 ft. SAND, with poorly consolidated sandstone (<5%), sand light brown with white streaks, very fine grained, dry, no H/C staining or odor                    | 0.0                                      | 1006149-04 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.70             |                                                                                                                                                               |
| 45                                                                                                                                                      |             |       |                                                                                     |                                                                                                                                                                |                                          |            |             |             |             |                    |                  |                                                                                                                                                               |
| 50                                                                                                                                                      | SS          |       |  | 50 ft. SAND with increasing SANDSTONE/SILTSTONE, poorly consolidated, sand very light brown, very fine grained, dry, no H/C staining or odor                   | 0.5                                      | 1006149-05 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |                                                                                                                                                               |
| 55                                                                                                                                                      |             | SP/SS |  |                                                                                                                                                                |                                          |            |             |             |             |                    |                  |                                                                                                                                                               |
| 60                                                                                                                                                      | SS          |       |  | 60 ft. SAND with approximately 10% poorly consolidated, poorly cemented SANDSTONE/SILTSTONE, sand very light brown, very fine grained, no H/C staining or odor | 0.7                                      | 1006149-06 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |                                                                                                                                                               |
| 65                                                                                                                                                      |             |       |                                                                                     |                                                                                                                                                                |                                          |            |             |             |             |                    |                  |                                                                                                                                                               |
| Notes:<br>Drilled to 125 ft. and completed as MW-26<br>Sampled every 10 ft. to saturation.<br>Depth to water 6/2/10 108.6 ft. BLS.<br>H/C - Hydrocarbon |             |       |                                                                                     |                                                                                                                                                                |                                          |            |             |             |             |                    |                  | Toluene from 0.0013 to 0.0024 mg/Kg detected in 9 of 12 samples, retested with no detections, attributed as laboratory artifact due to construction activity. |



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## LOG OF BORING MW-26

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Monitor Well 26  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Date, Time Started : 06/02/10, 0800  
Date, Time Complete : 06/02/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

Lea County, New Mexico  
N32° 52' 46.26", W103° 18' 01.21"

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                      | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                           |           |            |             |             |             |                    |                  |
| 65                  |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 70                  | SS          | SP/SS |         | 70 ft. SAND with less than 10% poorly consolidated, poorly cemented SANDSTONE/SILTSTONE, sand light brown, very fine grained, no H/C staining or odor | 0.9       | 1006149-07 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 75                  |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 80                  | SS          | SP    |         | 80 ft. SAND, light brown with some white streaking, very fine grained, well compacted, dry, less than 5% sandstone/siltstone, no H/C staining or odor | 0.8       | 1006149-08 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 85                  |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, light brown, very fine grained, well compacted, slightly damp, no H/C staining or odor                                                   | 1.8       | 1006149-09 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 95                  |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 100                 | SS          |       |         | From driller, gravels or hard sandstone at 97 ft.                                                                                                     |           |            |             |             |             |                    |                  |
| 105                 | SS          | SP    |         | 100 ft. SAND, light brown, very fine grained, well compacted, slightly moist, no H/C staining or odor                                                 | 0.8       | 1006149-10 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 110                 | SS          |       |         | 105 ft. SAND, light brown, very fine grained, well compacted, slightly moist, no H/C staining or odor                                                 | 1.3       | 1006149-12 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.00            |
| 115                 | SS          |       |         | 110 ft. SAND, brown, very fine grained, H2O saturated, with sandstone/siltstone approx. 5%, no H/C staining or odor                                   | -         | 1006149-11 | <0.050      | <1.7        | <3.4        | <0.0010            | 19.3             |
| 120                 | CT          |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                                       |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 125 ft. and completed as MW-26  
Sampled every 10 ft. to saturation.  
Depth to water 6/2/10 108.6 ft. BLS.  
H/C - Hydrocarbon

Toluene from 0.0013 to 0.0024 mg/Kg detected in 9 of 12 samples, retested with no detections, attributed as laboratory artifact due to construction activity.



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# LOG OF BORING MW-27

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Monitor Well 27  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Date, Time Started : 06/05/10, 0830  
Date, Time Complete : 06/05/10, 1415  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

Lea County, New Mexico  
N32° 52' 48.39", W103° 18' 04.14"

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                                                                         | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                                                                                              |           |            |             |             |             |                    |                  |
| 0                   |             | CA    |         | 0-2.5 ft. CALICHE rock                                                                                                                                                                                                                   |           |            |             |             |             |                    |                  |
| 5                   |             | SM/CA |         | SILTY SAND and CALICHE fragments                                                                                                                                                                                                         |           |            |             |             |             |                    |                  |
| 10                  | SS          |       |         | 10 ft. SANDY SILT/SILTY SAND and small caliche rock and rock fragments, silt/sand very light brown, no H/C staining or odor                                                                                                              | 4.0       | 1006296-13 | <0.050      | <1.7        | 130         | <0.0010            | 6.51             |
| 15                  |             | ML/SM |         |                                                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 20                  | SS          |       |         | 20 ft. SILTY SAND, very light brown, very fine grained, with small caliche fragments, white, no H/C staining or odor                                                                                                                     | 3.6       | 1006296-14 | <0.050      | <1.7        | 22          | <0.0010            | 8.24             |
| 25                  |             | SM    |         |                                                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 30                  | SS          |       |         | 30 ft. SAND, brown, very fine grained, uniform, compact, damp, no H/C staining or odor                                                                                                                                                   | 1.6       | 1006296-15 | <0.050      | <1.7        | <3.4        | <0.0010            | 17.3             |
| 35                  |             | SP    |         |                                                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 40                  | SS          |       |         | 40 ft. SAND and SANDSTONE, very light brown, very fine grained, sand silty, sandstone hard, no H/C staining or odor                                                                                                                      | 3.2       | 1006296-16 | <0.050      | <1.7        | 30          | <0.0010            | 11.2             |
| 45                  | SS          |       |         | 45 ft. SAND and SANDSTONE/SILTSTONE, sand very light brown, very fine grained, sandstone/siltstone white to light brown, poorly to well consolidated, cementing soft to hard, no H/C staining or odor (no sample for analysis, PID only) | 3.7       | --         | --          | --          | --          | --                 | --               |
| 50                  | SS          | SP/SS |         |                                                                                                                                                                                                                                          | 2.6       | 1006296-17 | <0.050      | <1.7        | <3.4        | <0.0010            | 12.3             |
| 55                  |             |       |         | 50 ft. SAND and SANDSTONE, sand light brown, very fine grained, damp, sandstone soft, "cookie" lenses, no H/C staining or odor                                                                                                           |           |            |             |             |             |                    |                  |
| 60                  | SS          |       |         | 60 ft. SAND, light brown, very fine grained, uniform, dry, no H/C staining or odor                                                                                                                                                       | 3.2       | 1006296-18 | <0.050      | <1.7        | <3.4        | <0.0010            | 7.06             |
| 65                  |             | SP    |         |                                                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |

## Notes:

Drilled to 125 ft. and completed as MW-27  
Sampled every 10 ft. to saturation.  
Depth to water 6/5/10 106.6 ft. BLS.  
H/C - Hydrocarbon



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## LOG OF BORING MW-27

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Monitor Well 27  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.39", W103° 18' 04.14"

Date, Time Started : 06/05/10, 0830

Date, Time Complete : 06/05/10, 1415

Hole Diameter : 8 1/4 in.

Drilling Method : Hollow Stem Auger

Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells

Sampling Method : 24-in. Splitspoon with  
downhole hammer

Logged By : David Boyer, PG

Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                  | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|-----------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                       |           |            |             |             |             |                    |                  |
| 65                  |             | SP    |         |                                                                                                                                   |           |            |             |             |             |                    |                  |
| 70                  | SS          |       |         | 70 ft. SAND and soft SANDSTONE, sand light brown, very fine grained, dry, small soft sandstone "cookies", no H/C staining or odor | 4.0       | 1006296-19 | <0.050      | <1.7        | <3.4        | <0.0010            | 13.2             |
| 75                  |             | SP/SS |         |                                                                                                                                   |           |            |             |             |             |                    |                  |
| 80                  | SS          |       |         | 80 ft. SAND, light brown, very fine to fine grained, some very soft sandstone with white streaks, no H/C staining or odor         | 4.5       | 1006296-20 | <0.050      | <1.7        | <3.4        | <0.0010            | 14.6             |
| 85                  |             |       |         |                                                                                                                                   |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, light brown, very fine grained, one large soft sandstone piece 1-1.5 in. with white streaks, no H/C staining or odor | 5.0       | 1006296-21 | <0.050      | <1.7        | <3.4        | <0.0010            | 5.3              |
| 95                  |             |       |         |                                                                                                                                   |           |            |             |             |             |                    |                  |
| 100                 | SS          |       |         | 100 ft. SAND, light brown, very fine grained, uniform, compact, no sandstone, no H/C staining or odor                             | 4.3       | 1006296-22 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.0             |
| 105                 | SS          |       |         | 105 ft. SAND, brown, very fine grained, compact, one small soft sandstone fragment, H2O saturated at tip, no H/C staining or odor | 5.6       | 1006296-23 | <0.050      | <1.7        | <3.4        | <0.0010            | 28               |
| 110                 |             |       |         |                                                                                                                                   |           |            |             |             |             |                    |                  |
| 115                 | CT          |       |         |                                                                                                                                   |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                   |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                   |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                   |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 125 ft. and completed as MW-27

Sampled every 10 ft. to saturation.

Depth to water 6/5/10 106.6 ft. BLS.

H/C - Hydrocarbon



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## LOG OF BORING MW-28

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| <b>Monitor Well 28</b><br>Navajo Refining Company, Lea Refinery<br>Section 36, T16S, R36E |             |       |         | Date, Time Started : 05/22/10, 0825<br>Date, Time Complete : 05/22/10, 1300<br>Hole Diameter : 8 1/4 in.<br>Drilling Method : Hollow Stem Auger<br>Drilling Equipment : CME-85 |           | Drilled By : WDC Drilling and Wells<br>Sampling Method : 24-in. Splitspoon with<br>downhole hammer<br>Logged By : David Boyer, PG<br>Company Rep. : Steve Terry, Navajo |             |             |             |                    |                  |
|-------------------------------------------------------------------------------------------|-------------|-------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|--------------------|------------------|
| Lea County, New Mexico<br>N32° 52' 52.61", W103° 18' 02.77"                               |             |       |         |                                                                                                                                                                                |           |                                                                                                                                                                         |             |             |             |                    |                  |
| Depth<br>in<br>Feet                                                                       | Sample Type | USCS  | GRAPHIC | DESCRIPTION                                                                                                                                                                    | PID (ppm) | Lab No.                                                                                                                                                                 | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
| 0                                                                                         |             |       |         | 0-5 ft. Top soil, loam                                                                                                                                                         |           |                                                                                                                                                                         |             |             |             |                    |                  |
| 5                                                                                         |             | TS    |         | 6 ft. Lithology change                                                                                                                                                         |           |                                                                                                                                                                         |             |             |             |                    |                  |
| 10                                                                                        | SS          |       |         | 10 ft. SAND, reddish, fine grained, no H/C staining or odor<br>11 ft. change to brown sand.                                                                                    | 0.0       | 1005814-11                                                                                                                                                              | <0.050      | <1.7        | <3.4        | <0.0010            | 12.1             |
| 20                                                                                        | SS          |       |         | 20 ft. SAND, light brown, very fine to fine grained, no H/C staining or odor                                                                                                   | 0.3       | 1005814-12                                                                                                                                                              | <0.050      | <1.7        | <3.4        | <0.0010            | 34.9             |
| 30                                                                                        | SS          |       |         | 30 ft. SAND, very light brown, fine grained, some minor consolidation, no H/C staining or odor                                                                                 | 0.6       | 1005814-13                                                                                                                                                              | <0.050      | <1.7        | <3.4        | <0.0010            | 32.1             |
| 40                                                                                        | SS          |       |         | 40 ft. SAND, very light brown, fine grained, no H/C staining or odor                                                                                                           | 0.6       | 1005814-14                                                                                                                                                              | <0.050      | <1.7        | <3.4        | <0.0010            | 31.0             |
| 50                                                                                        | SS          |       |         | 50 ft. SAND, very light brown, very fine grained, more uniform than above, some white streaks, no H/C staining or odor                                                         | 0.4       | 1005814-15                                                                                                                                                              | <0.050      | <1.7        | <3.4        | <0.0010            | 34.3             |
| 60                                                                                        | SS          |       |         | 60 ft. SAND with occasional SANDSTONE, very light brown, very fine grained, dry, sandstone less than 10%, no H/C staining or odor                                              | 0.5       | 1005814-16                                                                                                                                                              | <0.050      | <1.7        | <3.4        | <0.0010            | 9.64             |
| 65                                                                                        |             | SP/SS |         |                                                                                                                                                                                |           |                                                                                                                                                                         |             |             |             |                    |                  |

**Notes:**  
 Drilled to 125 ft. and completed as MW-28  
 Sampled every 10 ft. to saturation.  
 Depth to water 5/22/10 105.0 ft. BLS.  
 H/C - Hydrocarbon



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## LOG OF BORING MW-28

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Monitor Well 28  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Date, Time Started : 05/22/10, 0825  
Date, Time Complete : 05/22/10, 1300  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

Lea County, New Mexico  
N32° 52' 52.61", W103° 18' 02.77"

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                            | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                 |           |            |             |             |             |                    |                  |
| 65                  |             |       |         |                                                                                                                                             |           |            |             |             |             |                    |                  |
| 70                  | SS          | SP/SS |         | 70 ft. SAND with occasional SANDSTONE, very light brown, very fine grained, dry, sandstone/siltstone less than 10%, no H/C staining or odor | 0.6       | 1005814-17 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.0             |
| 75                  |             |       |         |                                                                                                                                             |           |            |             |             |             |                    |                  |
| 80                  | SS          | SP    |         | 80 ft. SAND, light brown, very fine grained, dry, little or no sandstone, no H/C staining or odor                                           | 0.2       | 1005814-18 | <0.050      | <1.7        | <3.4        | <0.0010            | 6.14             |
| 85                  |             |       |         |                                                                                                                                             |           |            |             |             |             |                    |                  |
| 90                  | SS          |       |         | 90 ft. SAND, light brown, very fine grained, dry, little or no sandstone, no H/C staining or odor                                           | 0.0       | 1005814-19 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.0             |
| 95                  |             |       |         |                                                                                                                                             |           |            |             |             |             |                    |                  |
| 100                 | SS          |       |         | 100 ft. SAND, brown, very fine grained, less than 5% sandstone/siltstone, slightly damp, no H/C staining or odor                            | 0.0       | 1005814-20 | <0.050      | <1.7        | <3.4        | <0.0010            | 8.99             |
| 105                 | SS          |       |         | 105 ft. SAND, H2O saturated, some white streaks, no H/C staining or odor                                                                    | --        | 1005814-21 | <0.050      | <1.7        | <3.4        | <0.0010            | 9.98             |
| 110                 |             |       |         |                                                                                                                                             |           |            |             |             |             |                    |                  |
| 115                 | CT          |       |         |                                                                                                                                             |           |            |             |             |             |                    |                  |
| 120                 |             |       |         |                                                                                                                                             |           |            |             |             |             |                    |                  |
| 125                 |             |       |         |                                                                                                                                             |           |            |             |             |             |                    |                  |
| 130                 |             |       |         |                                                                                                                                             |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 125 ft. and completed as MW-28  
Sampled every 10 ft. to saturation.  
Depth to water 5/22/10 105.0 ft. BLS.  
H/C - Hydrocarbon





**Safety & Environmental  
Solutions, Inc.**

**LOG OF BORING MW-29**

(Page 1 of 2)

Monitor Well 29  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Date, Time Started : 06/05/10, 1450  
Date, Time Complete : 06/06/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

Lea County, New Mexico  
N32° 52' 50.76", W103° 18' 06.96"

| Depth<br>in<br>Feet | Sample Type | USCS  | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                                              | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|-------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |       |         | DESCRIPTION                                                                                                                                                                                                   |           |            |             |             |             |                    |                  |
| 0                   |             | AR    |         | 0-1 ft. Overburden<br>2-4 ft. Gravels (fill?)<br>4-5 ft. Caliche gravels                                                                                                                                      |           |            |             |             |             |                    |                  |
| 5                   |             | CA    |         | 5 ft. CALICHE                                                                                                                                                                                                 |           |            |             |             |             |                    |                  |
| 10                  | SS          | CA/SM |         | 10 ft. CALICHE with SILTY SAND, caliche very hard (chert), sand very light brown, very fine grained, dry, no H/C staining or odor<br>10-15 ft. Very hard drilling, CALICHE (chert)<br>15 ft. Lithology change | 3.4       | 1006296-24 | <0.050      | <1.7        | <3.4        | <0.0010            | 110              |
| 15                  |             |       |         |                                                                                                                                                                                                               |           |            |             |             |             |                    |                  |
| 20                  | SS          | CA/SM |         | 20 ft. CALICHE and SILTY SAND, caliche soft, white (creme color), sand very light brown, very fine grained, no H/C staining or odor                                                                           | 2.7       | 1006296-25 | <0.050      | <1.7        | <3.4        | <0.0010            | 11               |
| 25                  |             |       |         |                                                                                                                                                                                                               |           |            |             |             |             |                    |                  |
| 30                  | SS          | SM/CA |         | 30 ft. SILTY SAND and CALICHE, sand very light brown, dry, caliche creme color, soft, possible transition to sandstone/siltstone with soft "cookies", no H/C staining or odor                                 | 0.0       | 1006296-26 | <0.050      | <1.7        | <3.4        | <0.0010            | 25               |
| 35                  |             |       |         |                                                                                                                                                                                                               |           |            |             |             |             |                    |                  |
| 40                  | SS          |       |         | 40 ft. SILTY SAND with soft SANDSTONE, some small caliche fragments to 1/4 in., sand light brown, very fine grained, dry, no H/C staining or odor                                                             | 0.0       | 1006296-27 | <0.050      | <1.7        | <3.4        | <0.0010            | 25               |
| 45                  |             |       |         |                                                                                                                                                                                                               |           |            |             |             |             |                    |                  |
| 50                  | SS          | SM/SS |         | 50 ft. SILTY SAND with soft SANDSTONE and frequent (15%) hard, well cemented siltstone, dry, no H/C staining or odor                                                                                          | 0.8       | 1006296-28 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.0             |
| 55                  |             |       |         |                                                                                                                                                                                                               |           |            |             |             |             |                    |                  |
| 60                  | SS          | SM/SL |         | 60 ft. SILTY SAND with hard SANDSTONE/SILTSTONE, sand light brown, very fine grained, slightly damp, sandstone/siltstone ~15%, no H/C staining or odor                                                        | 0.9       | 1006296-29 | <0.050      | <1.7        | <3.4        | <0.0010            | 5.8              |
| 65                  |             |       |         |                                                                                                                                                                                                               |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 125 ft. and completed as MW-29

Sampled every 10 ft. to saturation.

Depth to water 6/6/10 106.5 ft. BLS.

H/C - Hydrocarbon



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Solutions, Inc.**

## LOG OF BORING MW-29

(Page 2 of 2)

Monitor Well 29  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Date, Time Started : 06/05/10, 1450  
Date, Time Complete : 06/06/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

Lea County, New Mexico  
N32° 52' 50.76", W103° 18' 06.96"

| Depth<br>in<br>Feet | Sample Type | USCS | GRAPHIC | Sample Type<br>SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                                         | PID (ppm) | Lab No.    | GRO (mg/Kg) | DRO (mg/Kg) | MOR (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/Kg) |
|---------------------|-------------|------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------|-------------|-------------|--------------------|------------------|
|                     |             |      |         | DESCRIPTION                                                                                                                                                                                              |           |            |             |             |             |                    |                  |
| 65                  |             |      |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 70                  | SS          |      |         | 70 ft. SILTY SAND with hard<br>SANDSTONE/SILTSTONE (10-15%), dry, no H/C<br>staining or odor                                                                                                             | 1.3       | 1006296-30 | <0.050      | <1.7        | <3.4        | <0.0010            | 5.3              |
| 75                  |             |      |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 80                  | SS          |      |         | 80 ft. SAND, light brown, very fine grained,<br>damp, <5% sandstone/siltstone fragments, no<br>H/C staining or odor (downhole hammer broke,<br>fished out, sample with center rods advanced by<br>auger) | 1.1       | 1006296-31 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.0             |
| 85                  |             |      |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 90                  | SS          |      |         | 90 ft. SAND, light brown, very fine grained,<br>slightly damp, no sandstone/siltstone fragments,<br>no H/C staining or odor                                                                              | 1.4       | 1006296-32 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.0             |
| 95                  |             |      |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 100                 | SS          |      |         | 100 ft. SAND, light brown, very fine grained,<br>compact, slightly damp, occasional<br>sandstone/siltstone fragments (<5%), no H/C<br>staining or odor                                                   | 1.7       | 1006296-33 | <0.050      | <1.7        | <3.4        | <0.0010            | <5.8             |
| 105                 | SS          |      |         | 105 ft. SAND, brown, very fine grained,<br>compact, tip splitspoon saturated, no<br>sandstone/siltstone fragments, no H/C staining or<br>odor                                                            | 1.9       | 1006296-34 | <0.050      | <1.7        | <3.4        | <0.0010            | 26               |
| 110                 |             |      |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 115                 | CT          |      |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 120                 |             |      |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 125                 |             |      |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |
| 130                 |             |      |         |                                                                                                                                                                                                          |           |            |             |             |             |                    |                  |

**Notes:**

Drilled to 125 ft. and completed as MW-29

Sampled every 10 ft. to saturation.

Depth to water 6/6/10 106.5 ft. BLS.

H/C - Hydrocarbon





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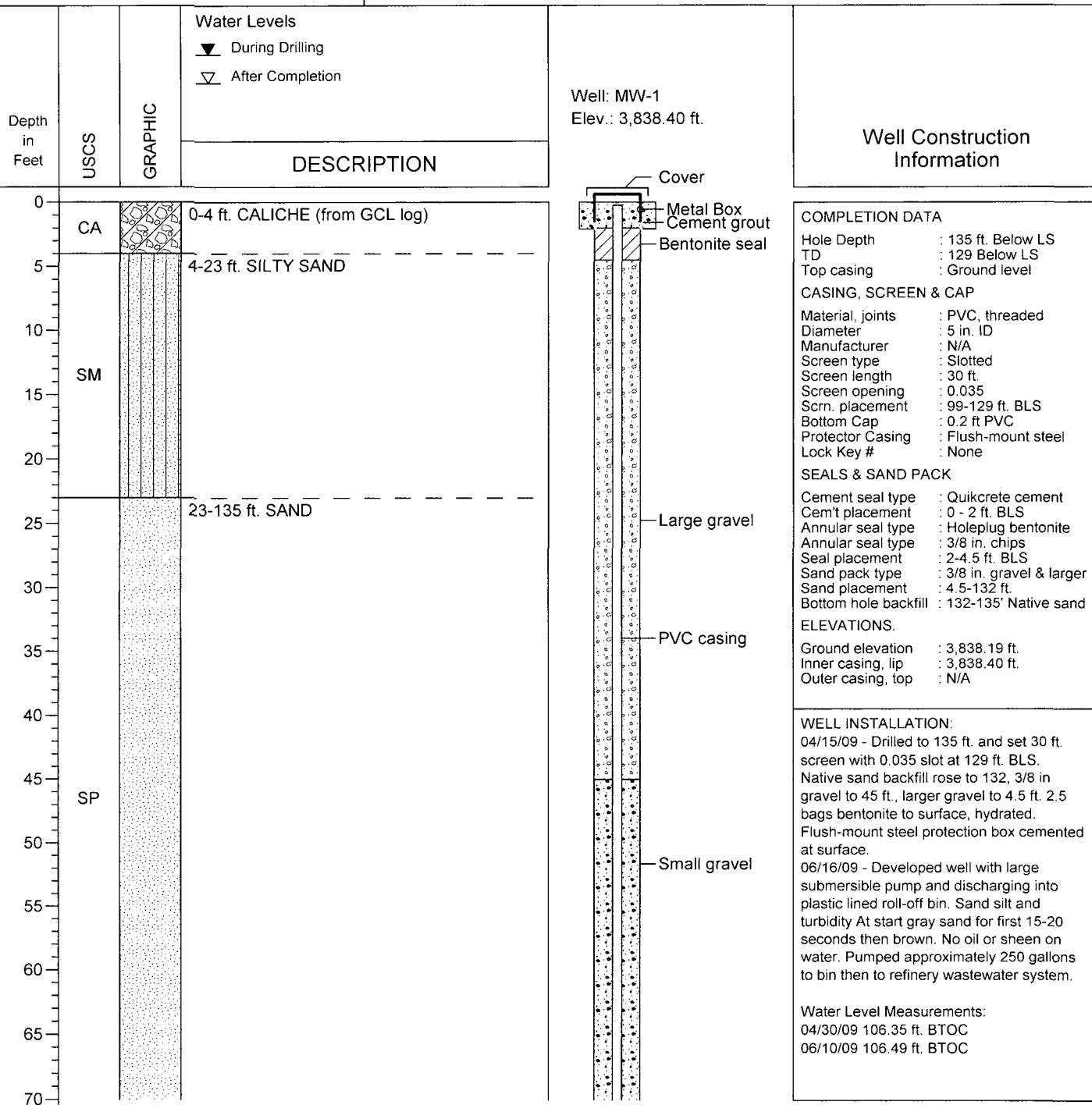
## WELL COMPLETION LOG MW-1

(Page 1 of 2)

Monitor Well 1  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 47.89", W103° 18' 12.36"

Date/Time Started : 04/15/09, 1000  
Date/Time Completed : 04/15/09, 1600  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



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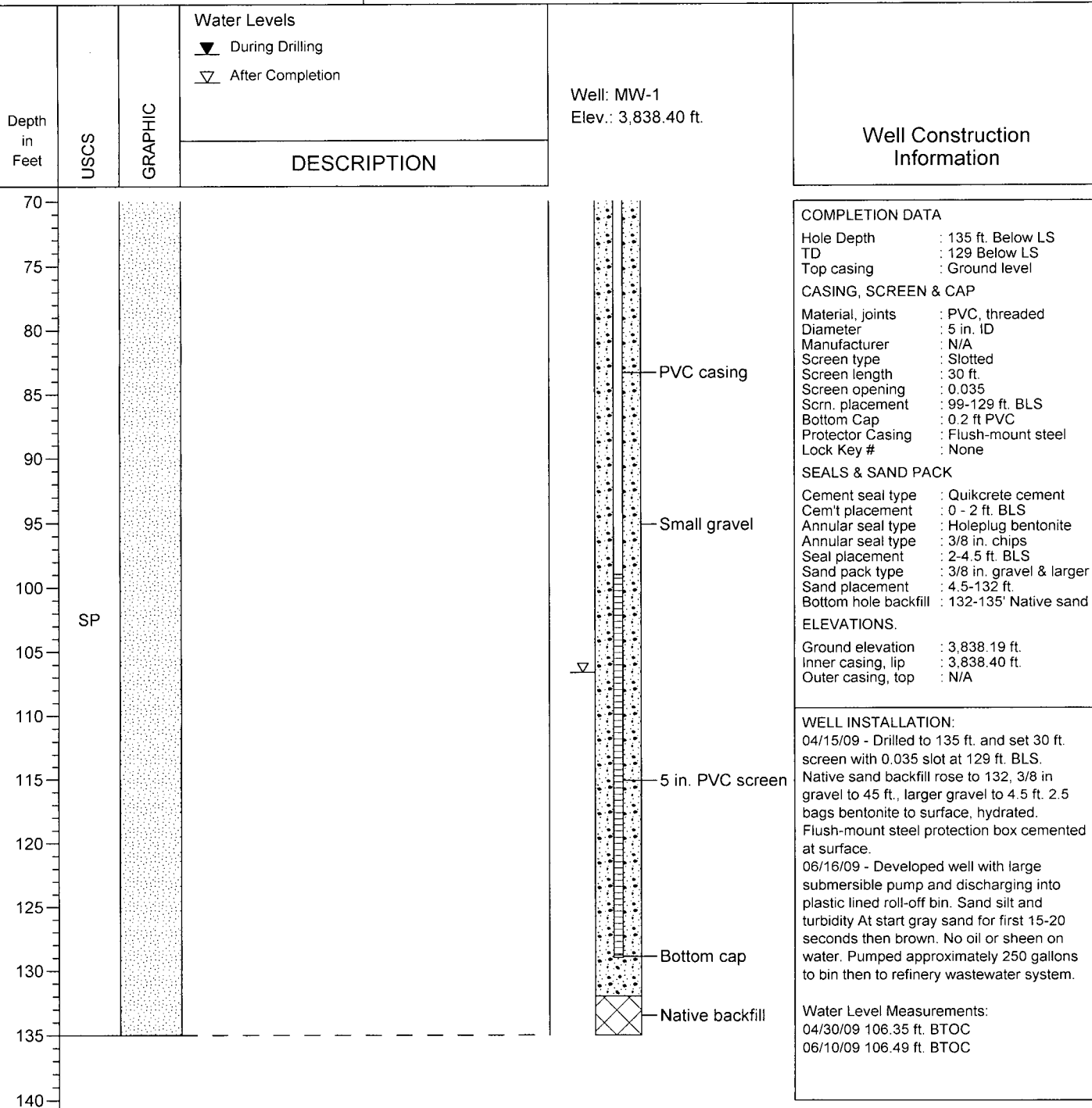
## WELL COMPLETION LOG MW-1

(Page 2 of 2)

Monitor Well 1  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 47.89", W103° 18' 12.36"

Date/Time Started : 04/15/09, 1000  
Date/Time Completed : 04/15/09, 1600  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



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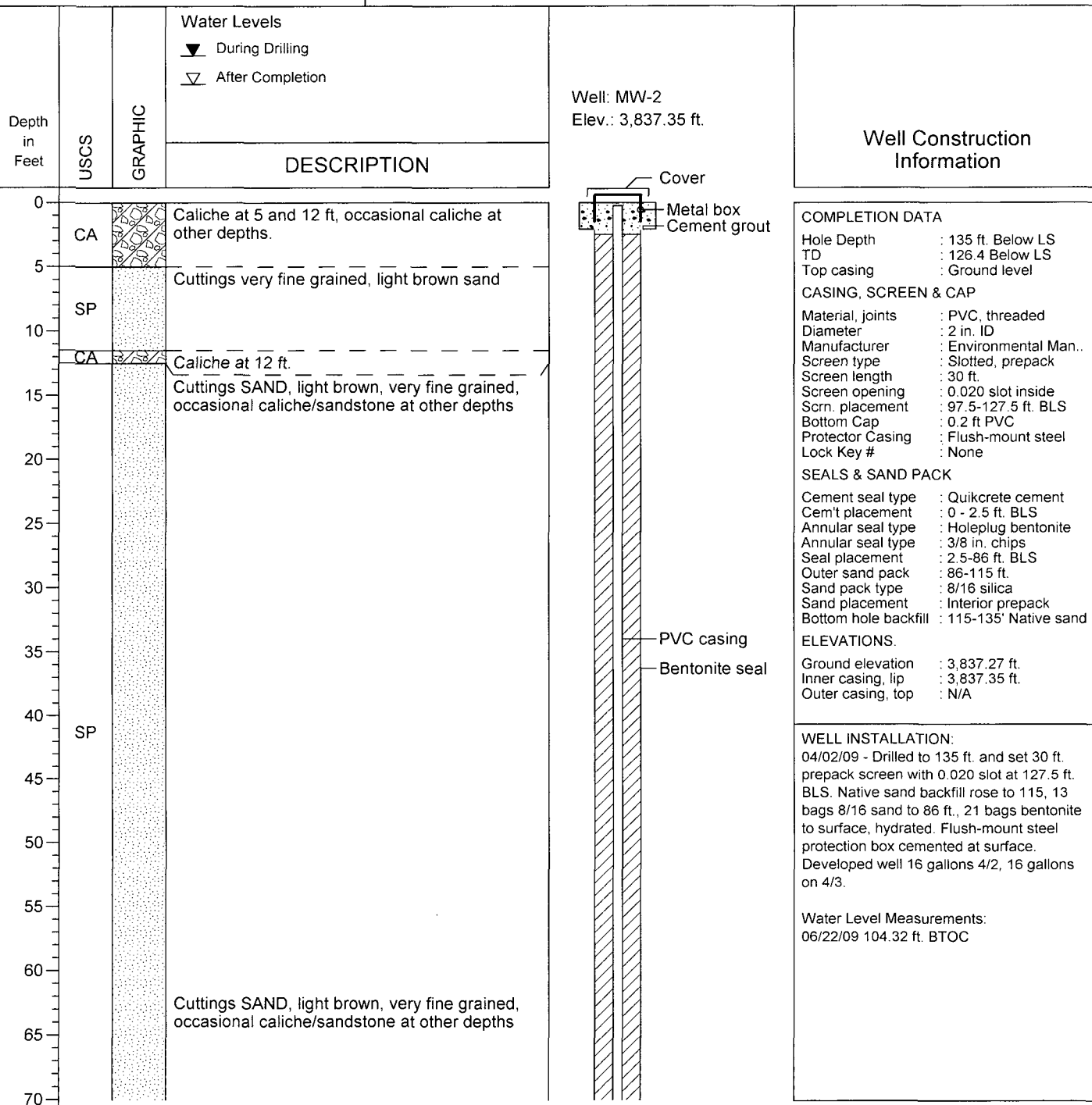
## WELL COMPLETION LOG MW-2

(Page 1 of 2)

Monitor Well 2  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 54.18", W103° 18' 09.83"

Date/Time Started : 04/02/09, 0935  
Date/Time Completed : 04/02/09, 1830  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



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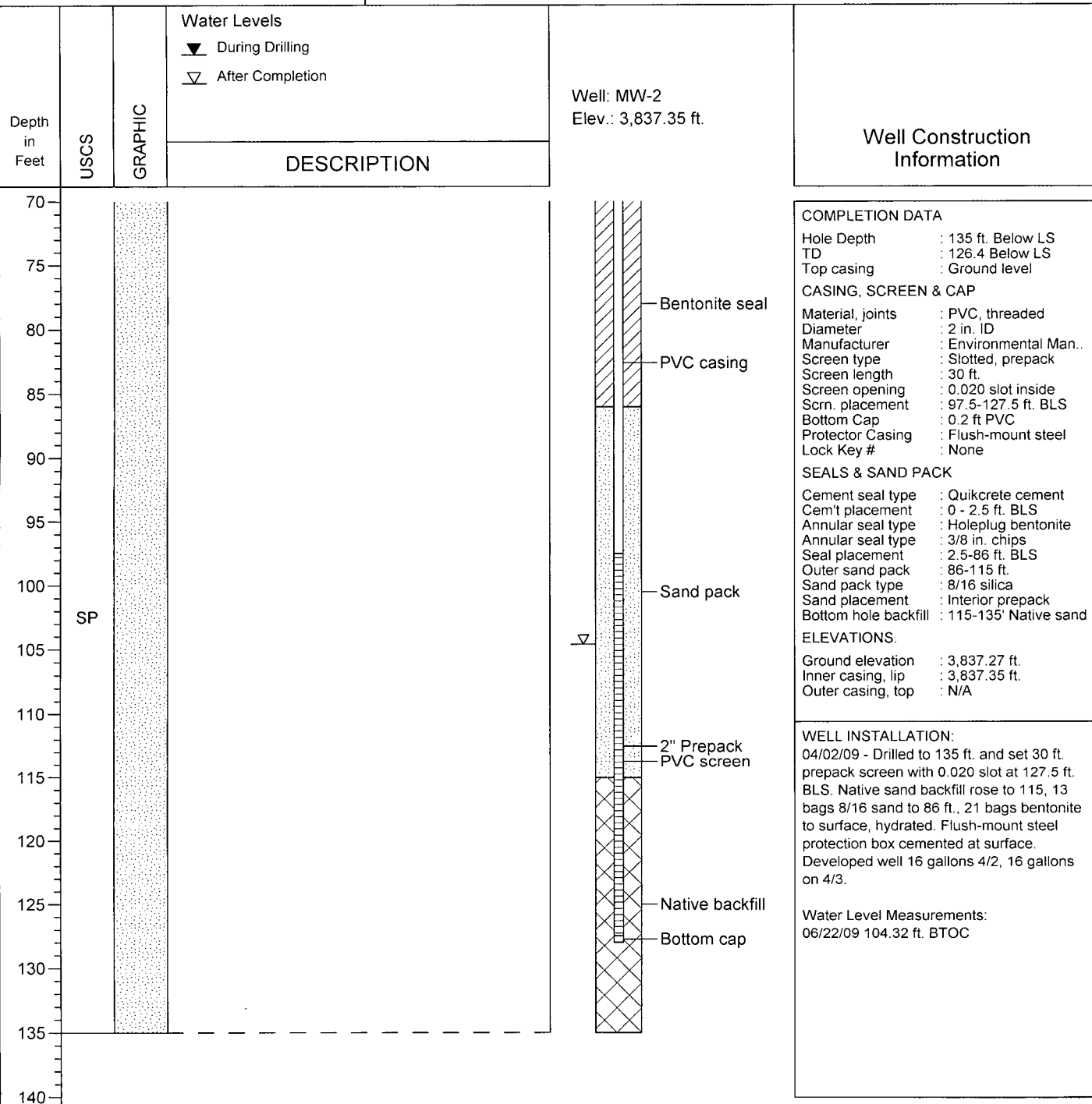
## WELL COMPLETION LOG MW-2

(Page 2 of 2)

Monitor Well 2  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 54.18", W103° 18' 09.83"

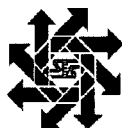
Date/Time Started : 04/02/09, 0935  
Date/Time Completed : 04/02/09, 1830  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon





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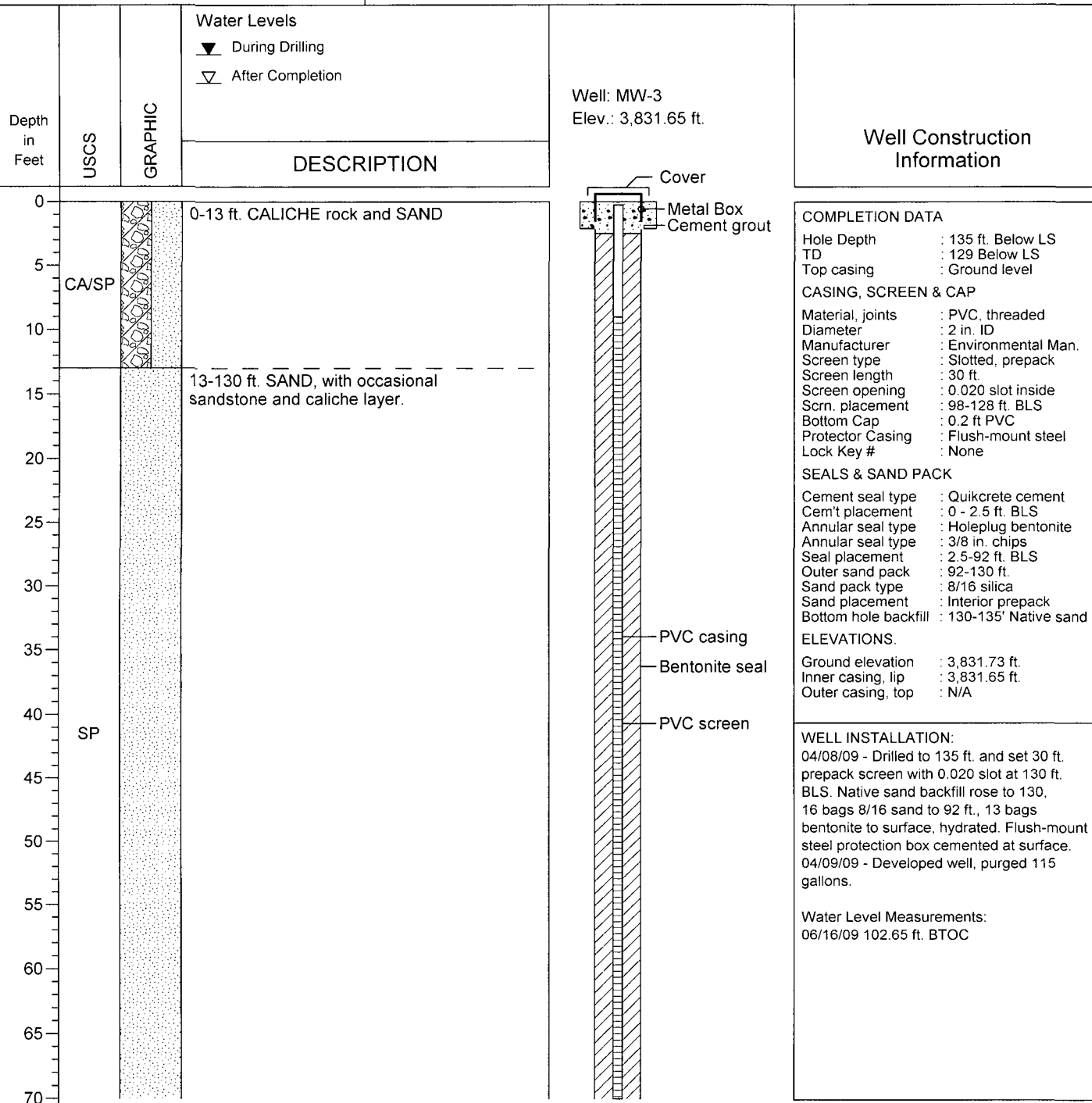
## WELL COMPLETION LOG MW-3

(Page 1 of 2)

Monitor Well 3  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 43.46", W103° 18' 08.07"

Date/Time Started : 04/06/09, 0700  
Date/Time Completed : 04/06/09, 1735  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : Brian Cuellar, SESI



Notes:  
H/C - Petroleum hydrocarbon



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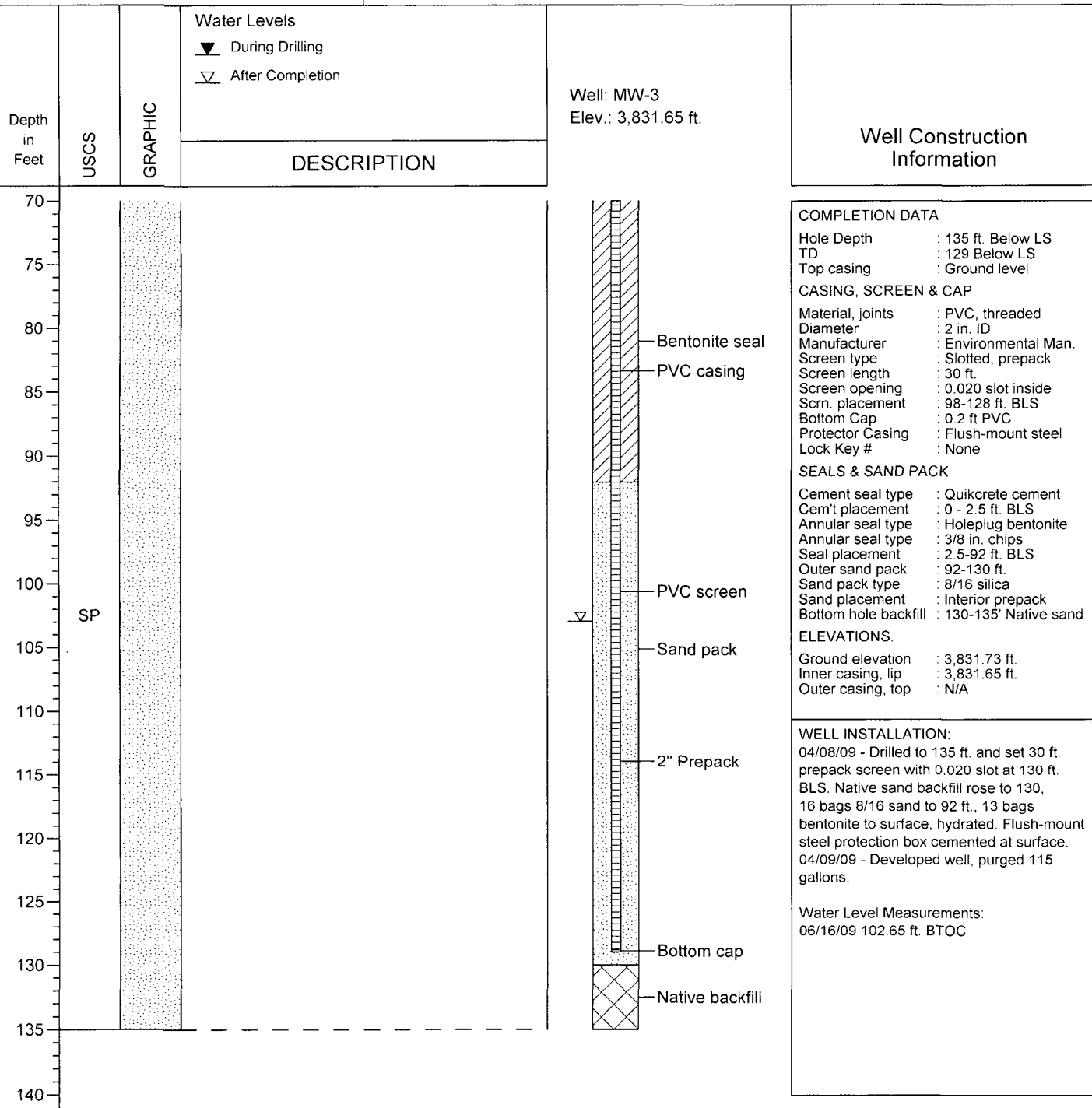
## WELL COMPLETION LOG MW-3

(Page 2 of 2)

Monitor Well 3  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 43.46", W103° 18' 08.07"

Date/Time Started : 04/06/09, 0700  
Date/Time Completed : 04/06/09, 1735  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : Brian Cuellar, SESI



Notes:  
H/C - Petroleum hydrocarbon



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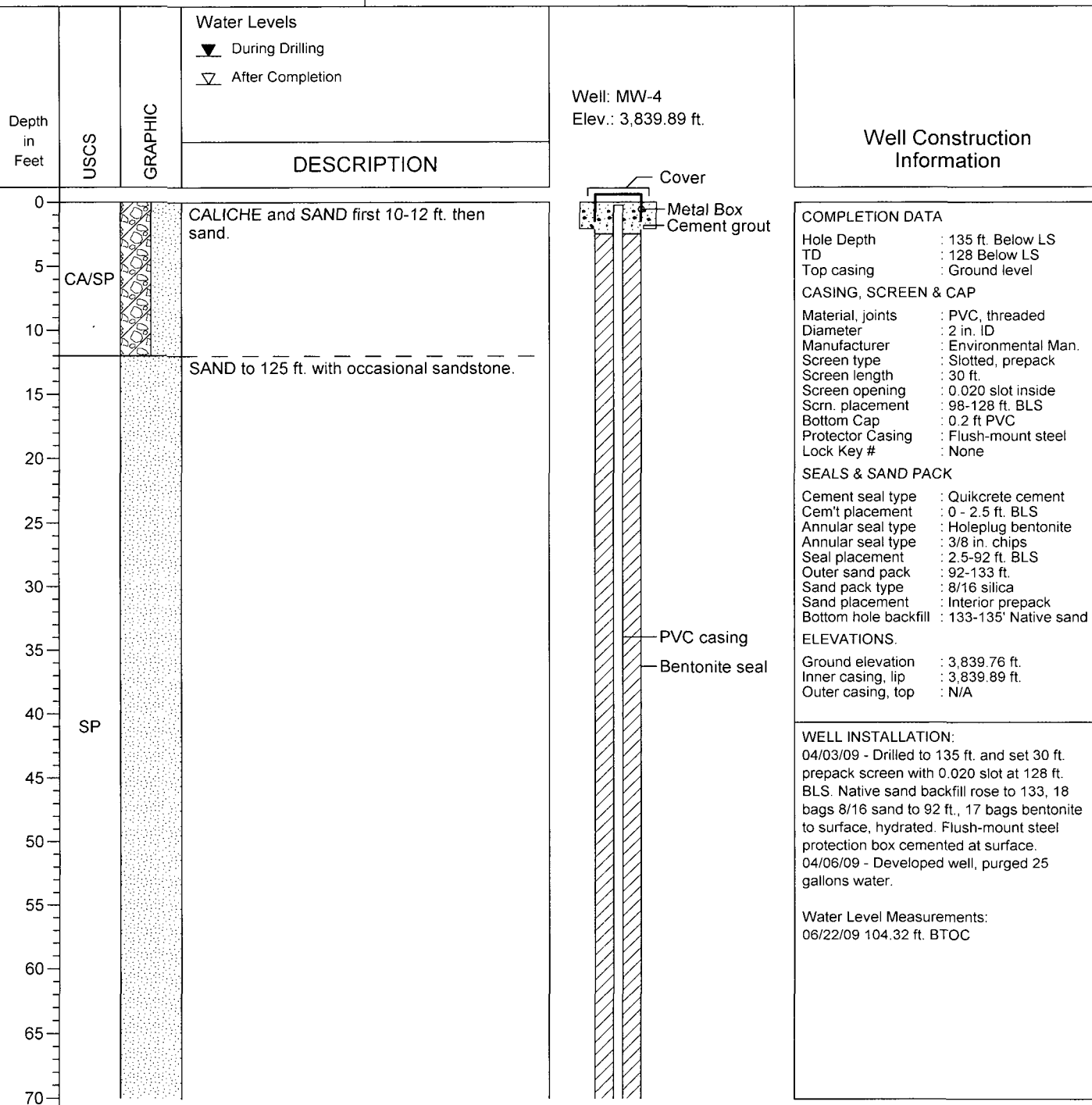
## WELL COMPLETION LOG MW-4

(Page 1 of 2)

Monitor Well 4  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 49.78", W103° 18' 15.51"

Date/Time Started : 04/03/09, 1000  
Date/Time Completed : 04/03/09, 1600  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



**Safety & Environmental  
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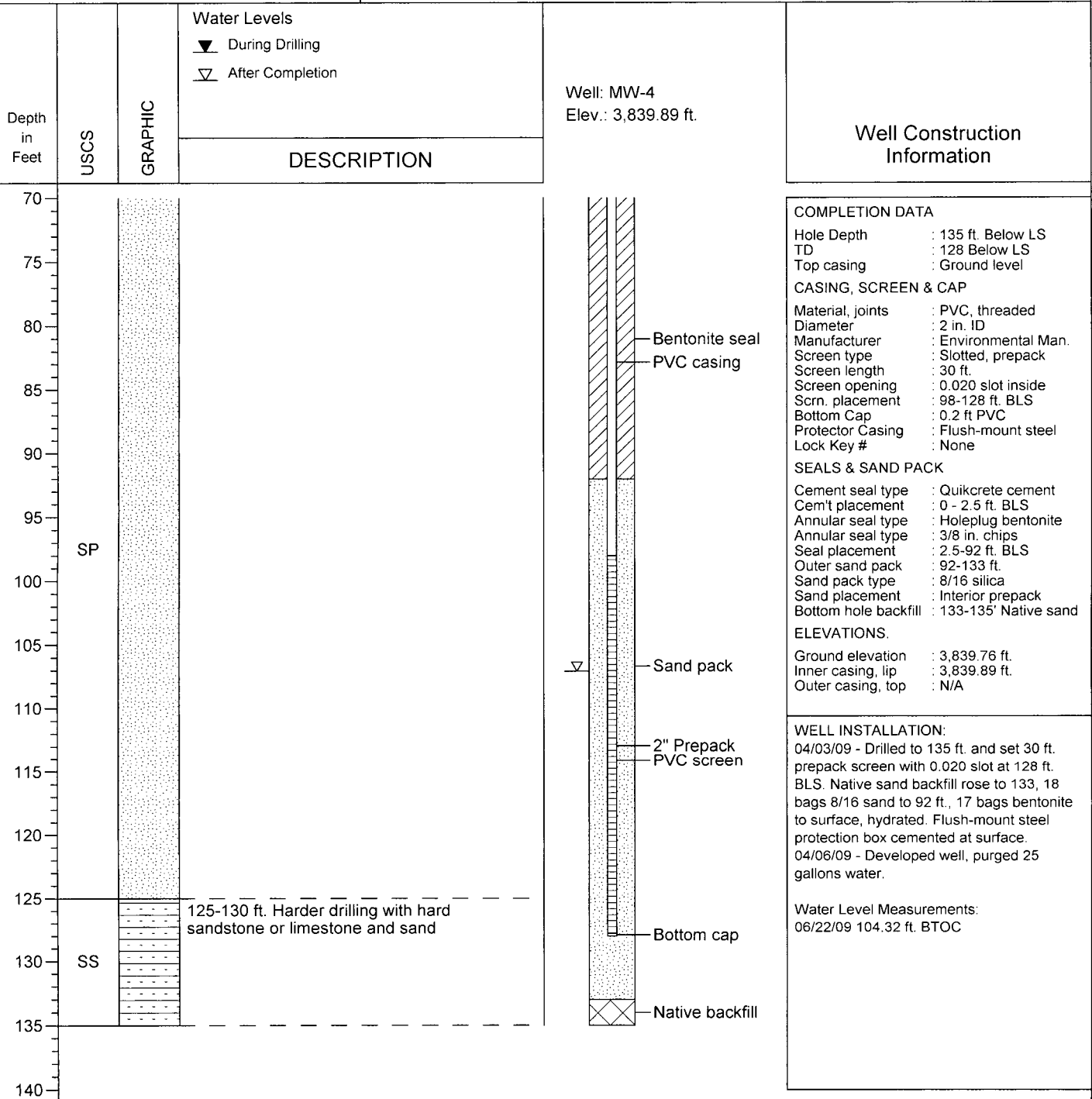
## WELL COMPLETION LOG MW-4

(Page 2 of 2)

Monitor Well 4  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 49.78", W103° 18' 15.51"

Date/Time Started : 04/03/09, 1000  
Date/Time Completed : 04/03/09, 1600  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



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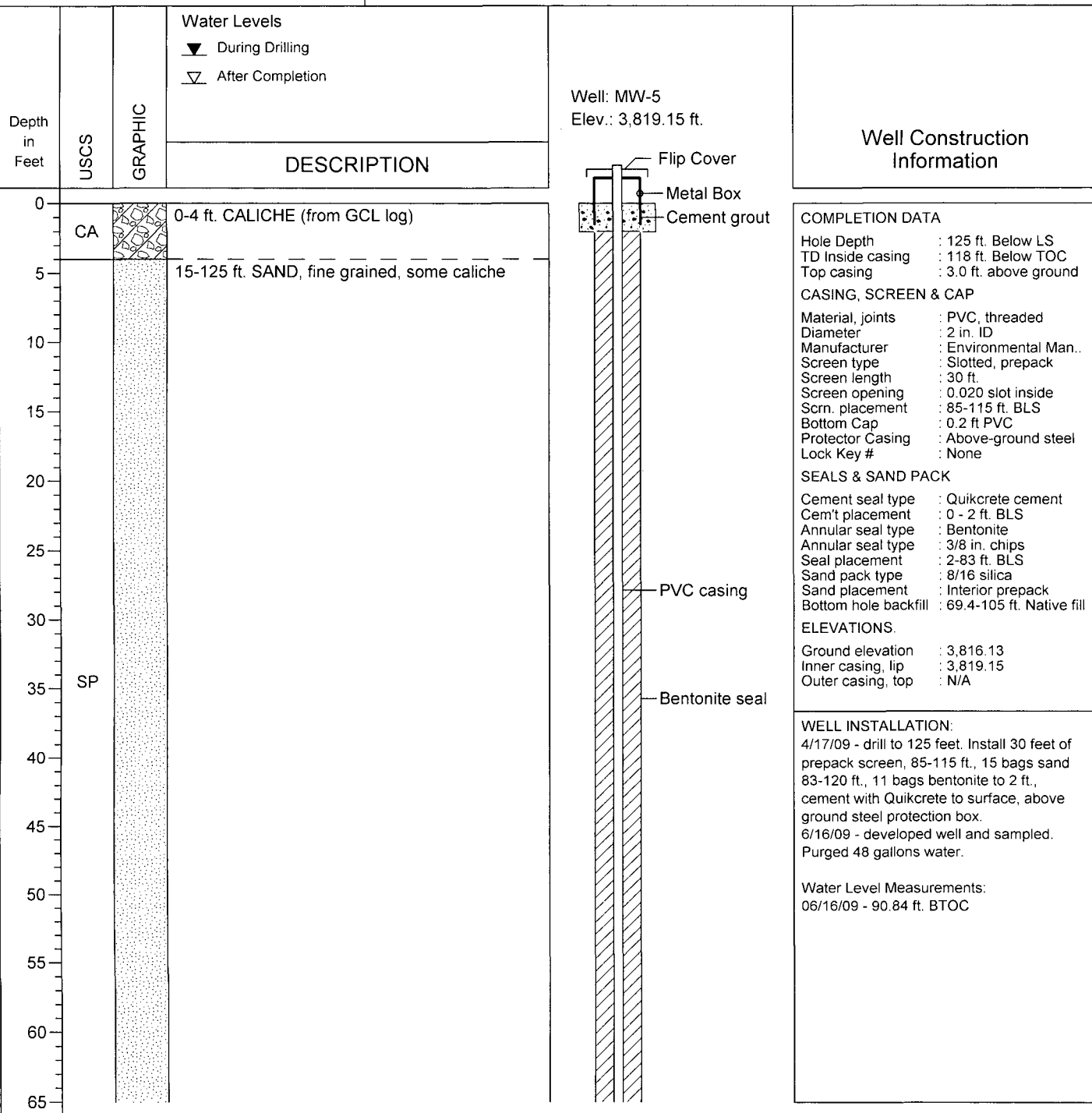
## WELL COMPLETION LOG MW-5

(Page 1 of 2)

Monitor Well 5  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E  
Lea County, New Mexico  
N32° 52' 31.75", W103° 17' 43.14"

Date/Time Started : 04/17/09, 0645  
Date/Time Completed : 04/17/09  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



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Solutions, Inc.**

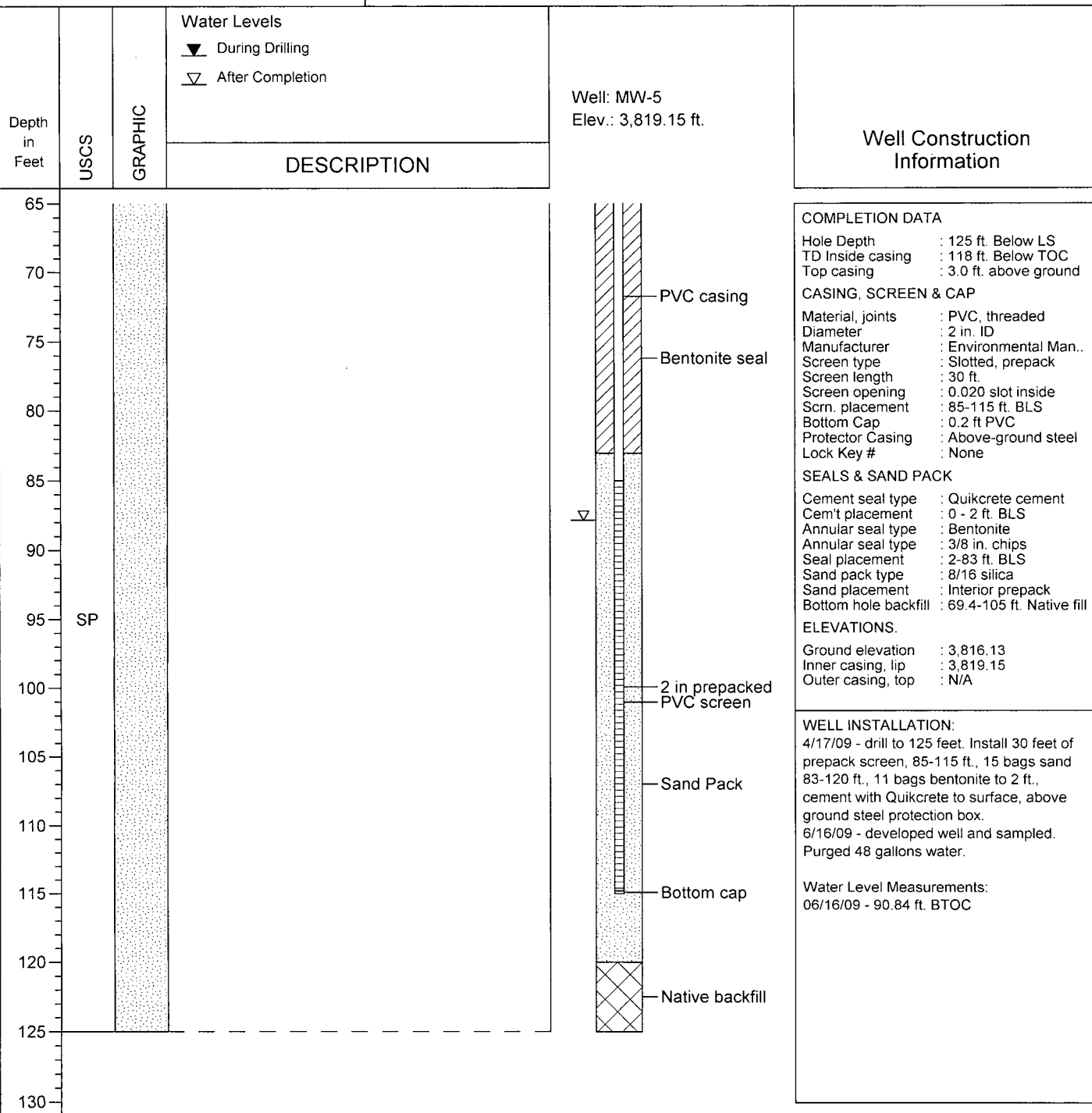
## WELL COMPLETION LOG MW-5

(Page 2 of 2)

Monitor Well 5  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E  
Lea County, New Mexico  
N32° 52' 31.75", W103° 17' 43.14"

Date/Time Started : 04/17/09, 0645  
Date/Time Completed : 04/17/09  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

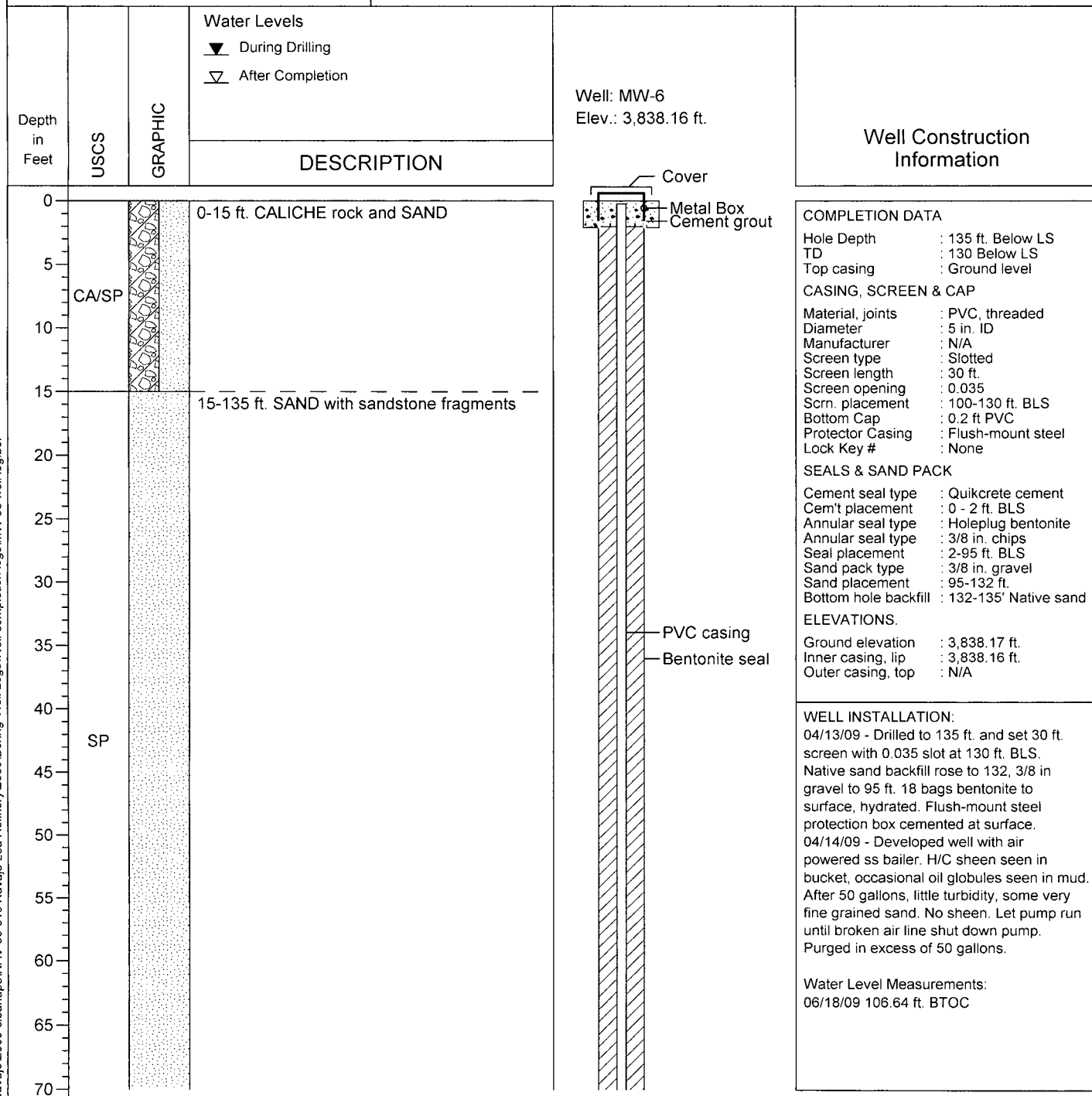
## WELL COMPLETION LOG MW-6

(Page 1 of 2)

Monitor Well 6  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 47.40", W103° 18' 11.63"

Date/Time Started : 04/13/09, 0730  
Date/Time Completed : 04/13/09, 1830  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon





**Safety & Environmental  
Solutions, Inc.**

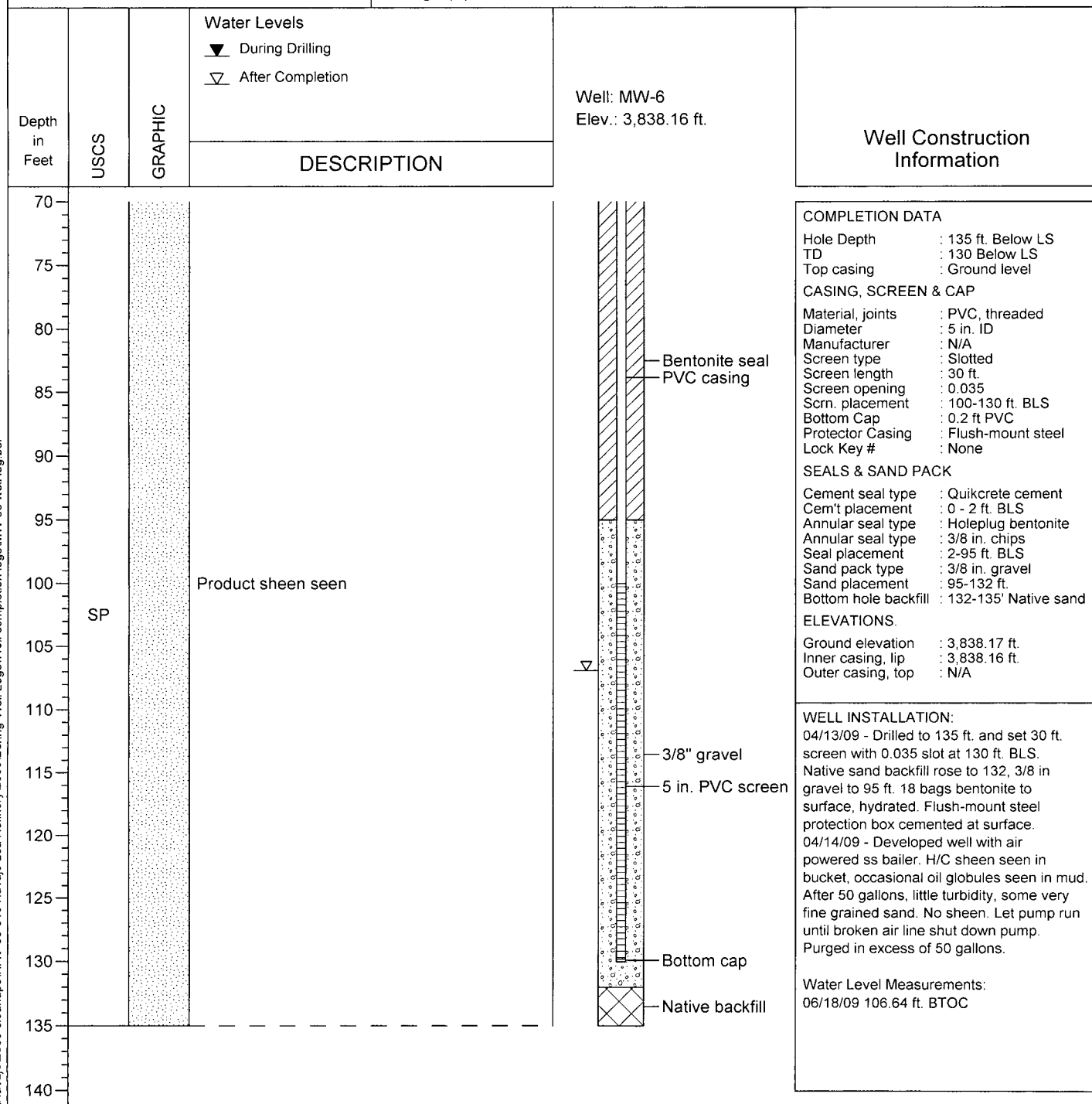
## WELL COMPLETION LOG MW-6

(Page 2 of 2)

Monitor Well 6  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 47.40", W103° 18' 11.63"

Date/Time Started : 04/13/09, 0730  
Date/Time Completed : 04/13/09, 1830  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



**Safety & Environmental  
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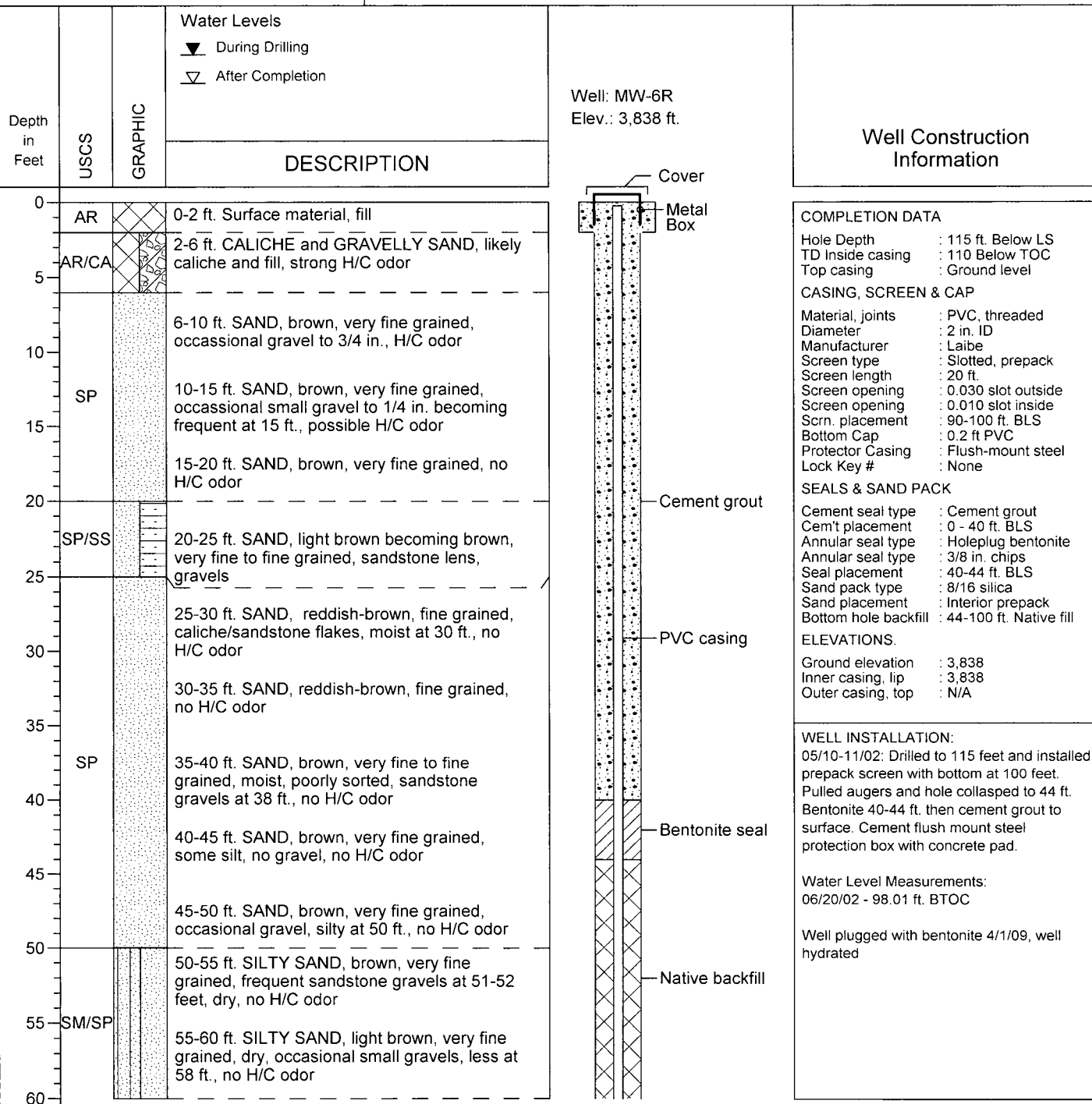
## WELL COMPLETION LOG MW-6R

(Page 1 of 2)

Monitor Well 6R  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 47.40", W103° 18' 11.63"

Date/Time Started : 05/10/02, 1515  
Date/Time Completed : 05/10/02, 1330  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : Ingersol-Rand A-300

Drilled By : Atkins Engineering  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



**Safety & Environmental  
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## WELL COMPLETION LOG MW-6R

(Page 2 of 2)

Monitor Well 6R  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 47.40", W103° 18' 11.63"

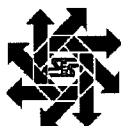
Date/Time Started : 05/10/02, 1515  
Date/Time Completed : 05/10/02, 1330  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : Ingersoll-Rand A-300

Drilled By : Atkins Engineering  
Sampling Method : Cuttings  
Logged By : David Boyer, PG

| Depth<br>in<br>Feet | USCS | GRAPHIC | Water Levels                            | DESCRIPTION                                                                                            | Well: MW-6R<br>Elev.: 3,838 ft. | Well Construction<br>Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|---------------------|------|---------|-----------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                     |      |         | ▼ During Drilling<br>▽ After Completion |                                                                                                        |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 60                  | SP   |         |                                         | 60-65 ft. SAND, light brown, very fine grained, no H/C odor                                            |                                 | <b>COMPLETION DATA</b><br><br>Hole Depth : 115 ft. Below LS<br>TD Inside casing : 110 Below TOC<br>Top casing : Ground level<br><br><b>CASING, SCREEN &amp; CAP</b><br>Material, joints : PVC, threaded<br>Diameter : 2 in. ID<br>Manufacturer : Laibe<br>Screen type : Slotted, prepack<br>Screen length : 20 ft.<br>Screen opening : 0.030 slot outside<br>Screen opening : 0.010 slot inside<br>Scrn. placement : 90-100 ft. BLS<br>Bottom Cap : 0.2 ft PVC<br>Protector Casing : Flush-mount steel<br>Lock Key # : None<br><br><b>SEALS &amp; SAND PACK</b><br>Cement seal type : Cement grout<br>Cem't placement : 0 - 40 ft. BLS<br>Annular seal type : Holeplug bentonite<br>Annular seal type : 3/8 in. chips<br>Seal placement : 40-44 ft. BLS<br>Sand pack type : 8/16 silica<br>Sand placement : Interior prepack<br>Bottom hole backfill : 44-100 ft. Native fill<br><br><b>ELEVATIONS.</b><br>Ground elevation : 3,838<br>Inner casing, lip : 3,838<br>Outer casing, top : N/A<br><br><b>WELL INSTALLATION:</b><br>05/10-11/02: Drilled to 115 feet and installed prepack screen with bottom at 100 feet. Pulled augers and hole collapsed to 44 ft. Bentonite 40-44 ft. then cement grout to surface. Cement flush mount steel protection box with concrete pad.<br><br><b>Water Level Measurements:</b><br>06/20/02 - 98.01 ft. BTOC<br><br>Well plugged with bentonite 4/1/09, well hydrated |  |
| 65                  |      |         |                                         | 65-70 ft. SAND, light brown, very fine grained, thin sandstone lens/gravels at 67 ft., light grayish   |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 70                  |      |         |                                         | 70-75 ft. SAND, brown, very fine grained, uniform, poorly sorted, minor silt, no clay, no H/C odor     |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 75                  |      |         |                                         | 75-80 ft. SAND, brown, very fine to fine grained, occasional clay and small gravel (1/4"), no H/C odor |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 80                  |      |         |                                         | 80-85 ft. SAND, brown, very fine grained, non-cohesive when wetted, no H/C odor                        |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 85                  |      |         |                                         | 85-90 ft. SAND, brown, very fine grained, no H/C odor                                                  |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 90                  | SP   |         |                                         | 90-95 ft. SAND, brown, very fine grained, slightly cohesive, occasional small gravel                   |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 95                  |      |         |                                         | 95-100 ft. No returns, water at 97.6 ft. in MW-6.                                                      |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 100                 |      |         |                                         | 100-105 ft. SAND, brown, very fine grained, moist, no H/C odor                                         |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 105                 | SP   |         |                                         | 105-110 ft. SAND, brown, very fine grained, moist, no H/C odor                                         |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 110                 |      |         |                                         | 110-115 ft. SAND, brown, very fine grained, non-cohesive, moist, no H/C odor                           |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 115                 |      |         |                                         |                                                                                                        |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 120                 |      |         |                                         |                                                                                                        |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |

**Notes:**

H/C - Petroleum hydrocarbon



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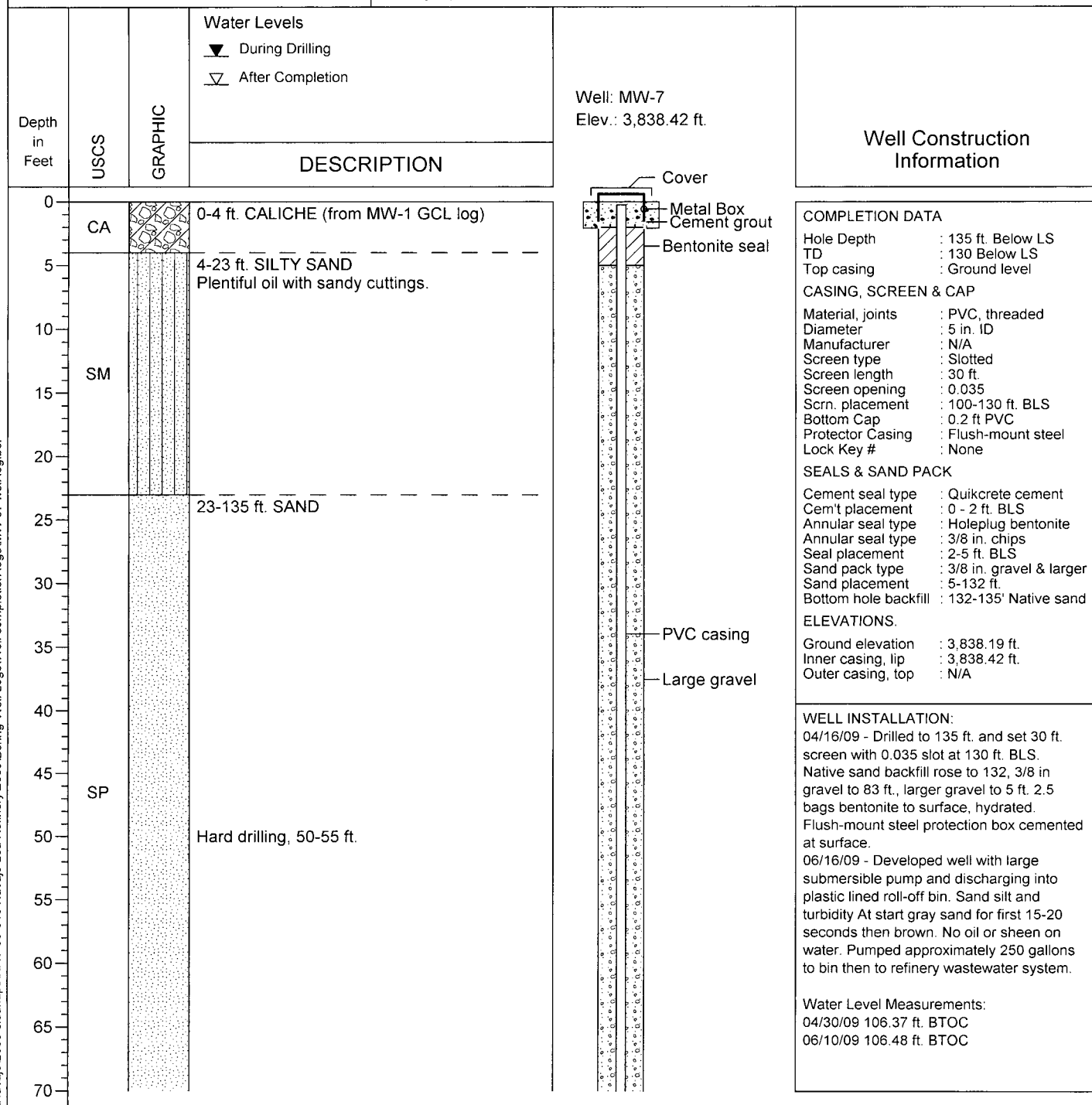
## WELL COMPLETION LOG MW-7

(Page 1 of 2)

Monitor Well 7  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 47.82", W103° 18' 12.48"

Date/Time Started : 04/16/09, 0830  
Date/Time Completed : 04/16/09, 1630  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

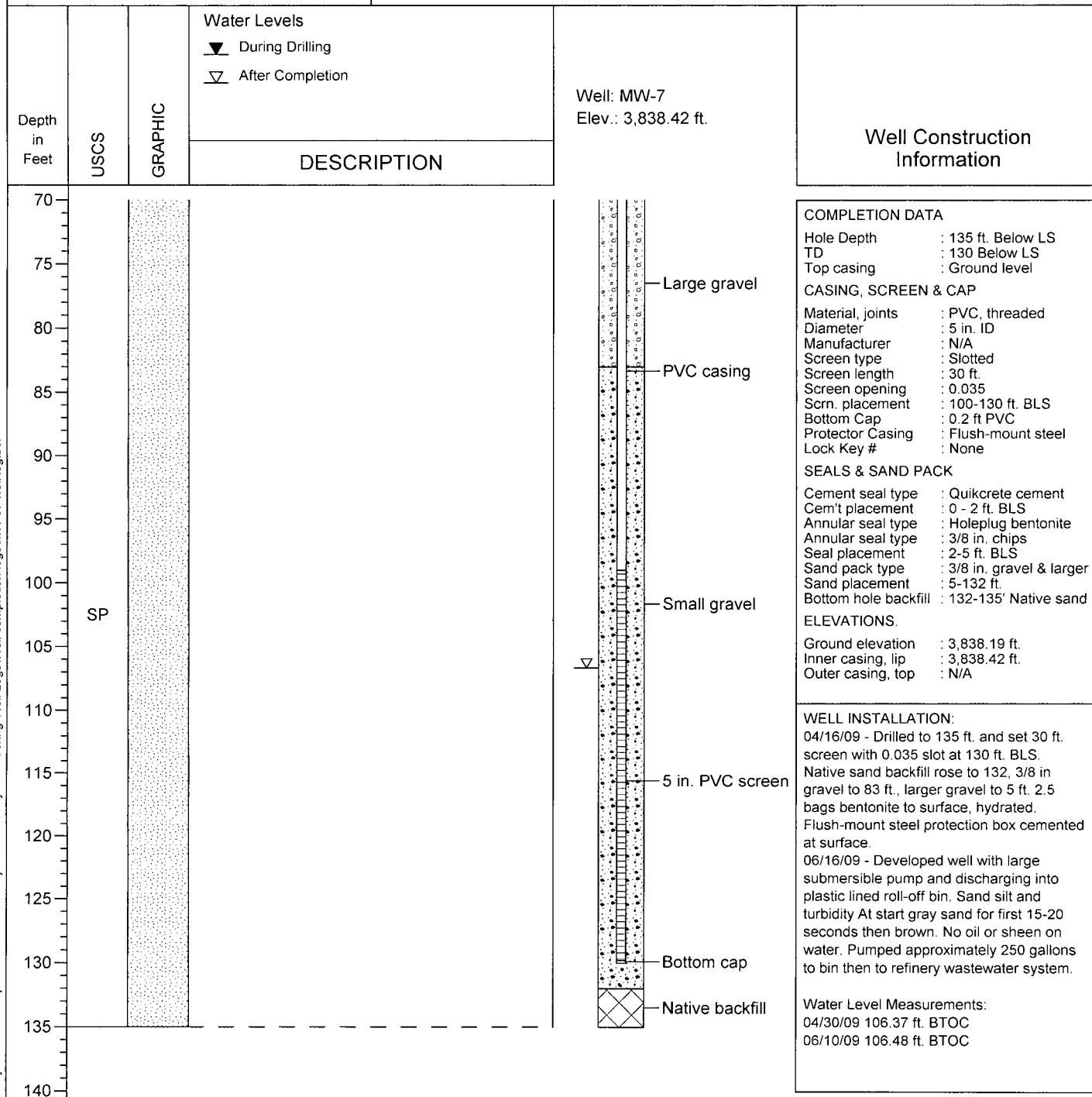
## WELL COMPLETION LOG MW-7

(Page 2 of 2)

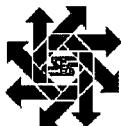
Monitor Well 7  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 47.82", W103° 18' 12.48"

Date/Time Started : 04/16/09, 0830  
Date/Time Completed : 04/16/09, 1630  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



**Safety & Environmental  
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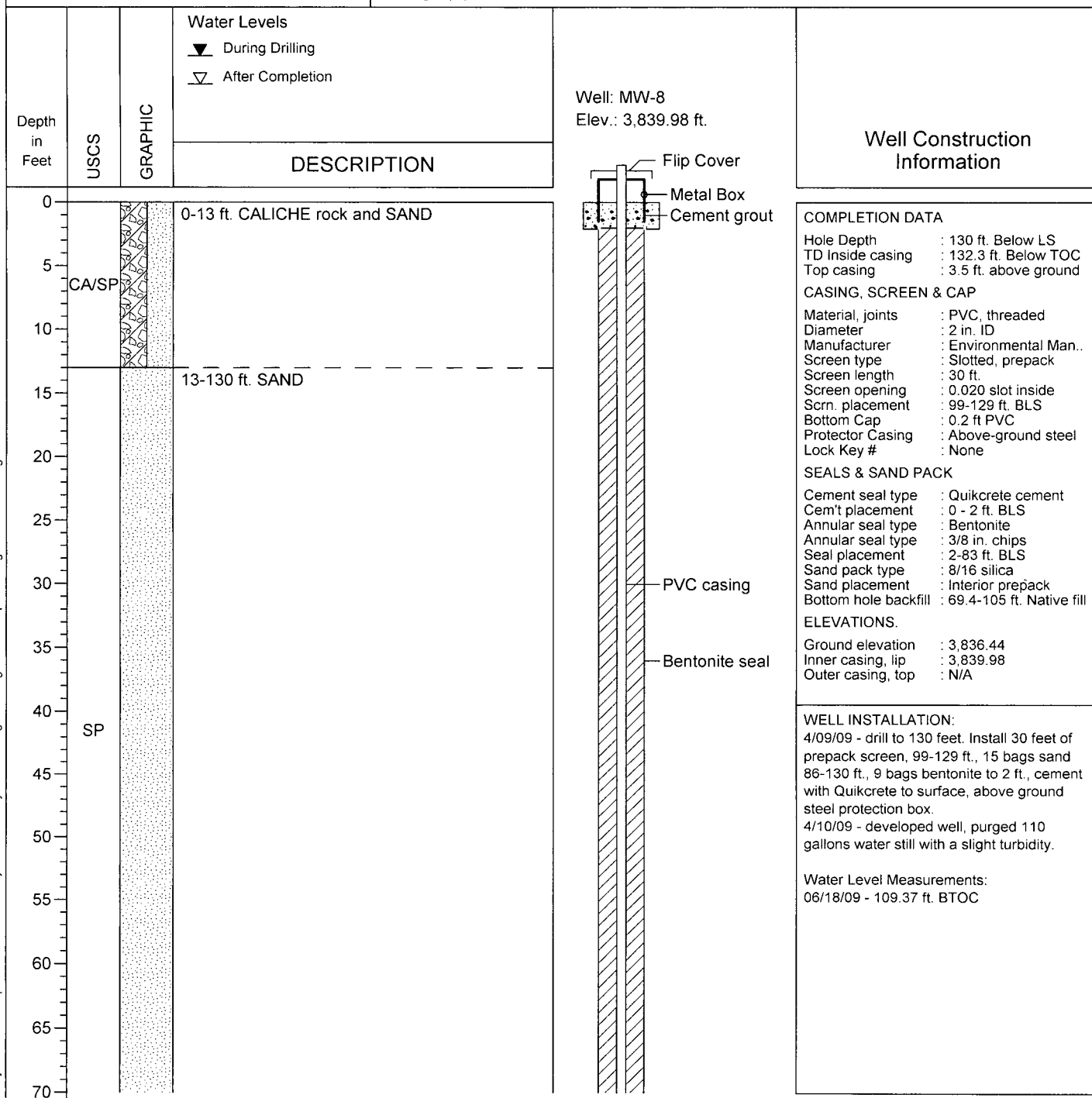
## WELL COMPLETION LOG MW-8

(Page 1 of 2)

Monitor Well 8  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 46.89", W103° 18' 08.97"

Date/Time Started : 04/09/09, 0700  
Date/Time Completed : 04/09/09, 1230  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



**Safety & Environmental  
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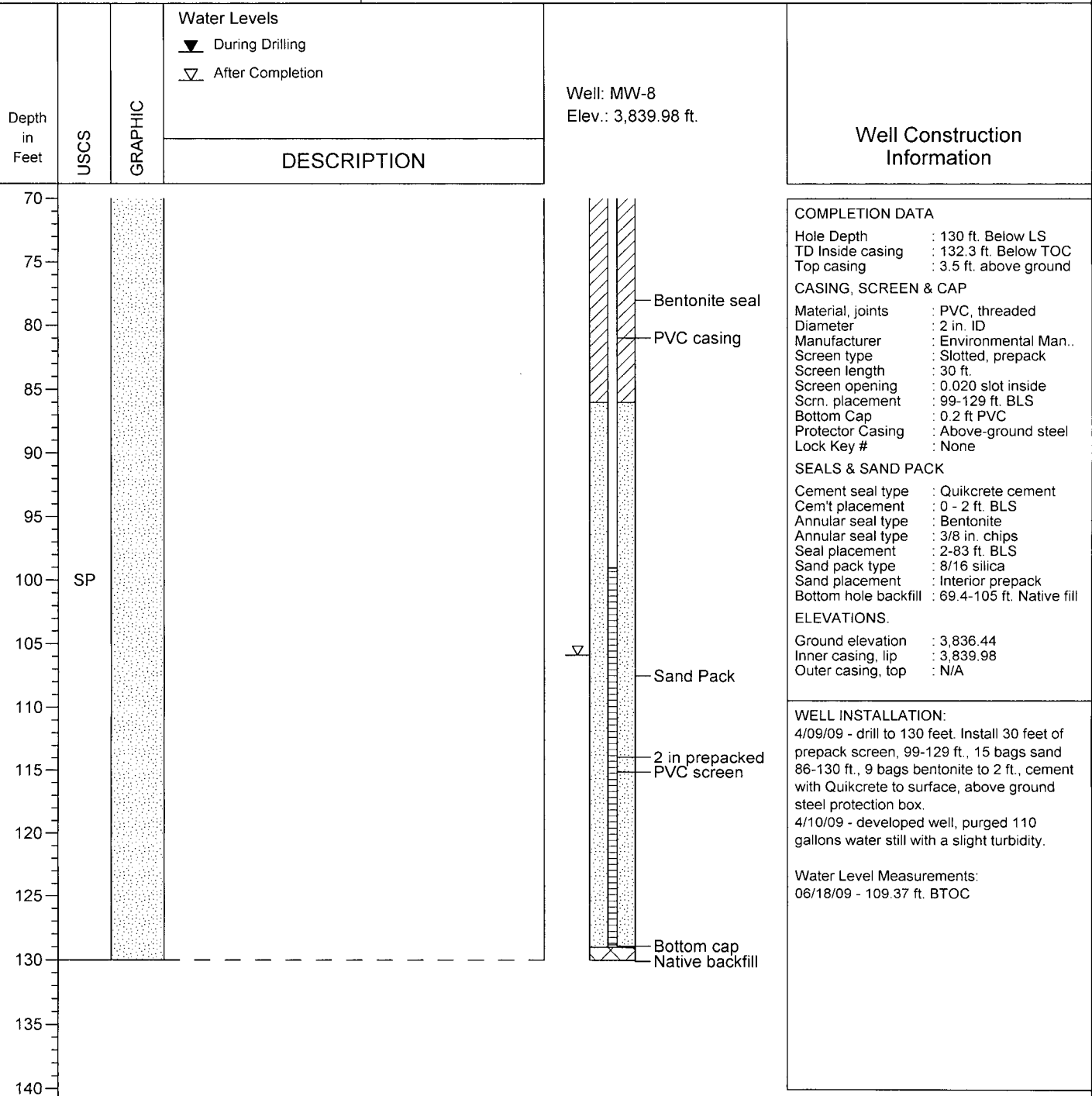
## WELL COMPLETION LOG MW-8

(Page 2 of 2)

Monitor Well 8  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 46.89", W103° 18' 08.97"

Date/Time Started : 04/09/09, 0700  
Date/Time Completed : 04/09/09, 1230  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



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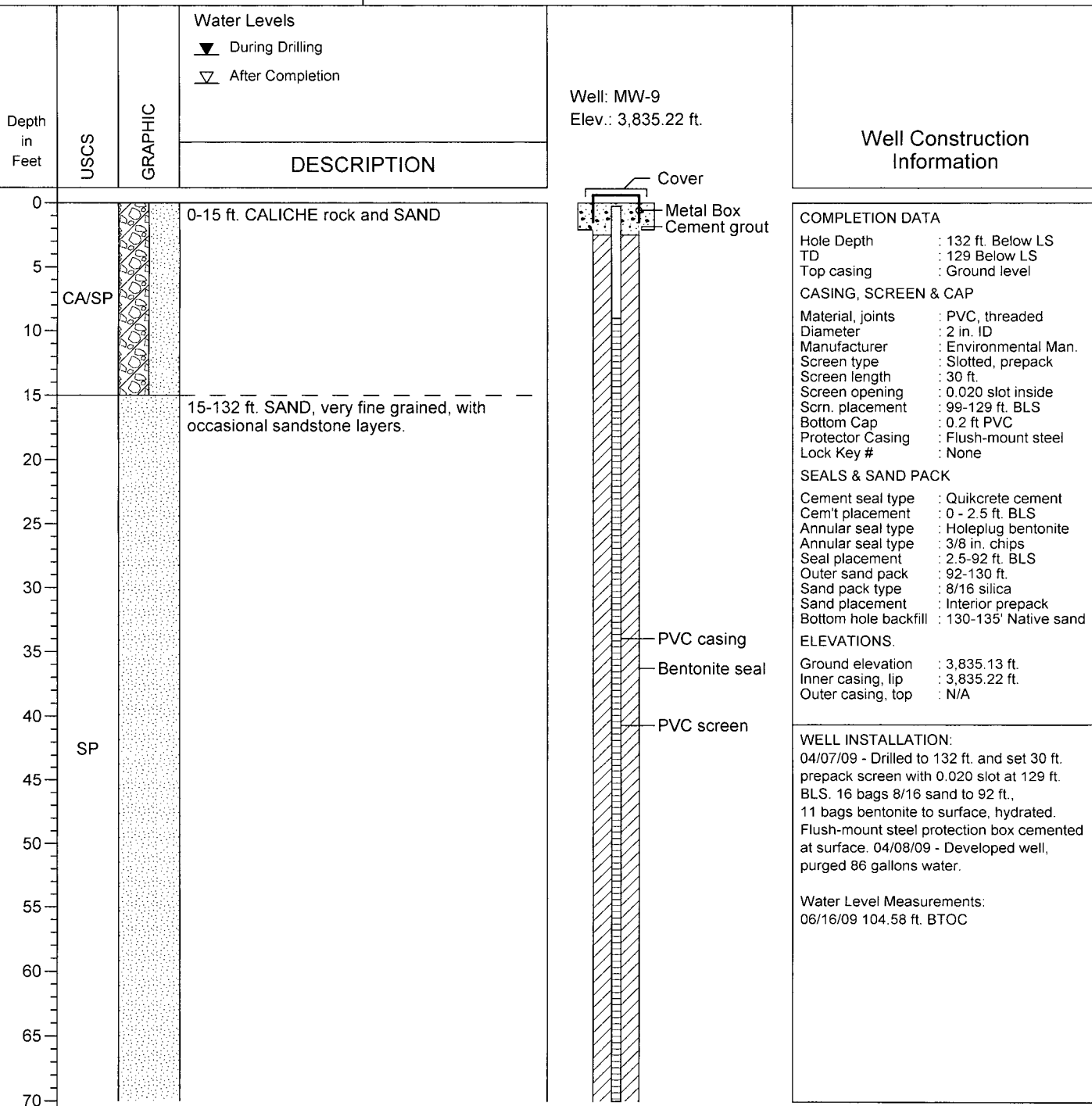
## WELL COMPLETION LOG MW-9

(Page 1 of 2)

Monitor Well 9  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 44.96", W103° 18' 11.95"

Date/Time Started : 04/07/09, 0700  
Date/Time Completed : 04/07/09  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : Brian Cuellar, SESI



Notes:  
H/C - Petroleum hydrocarbon





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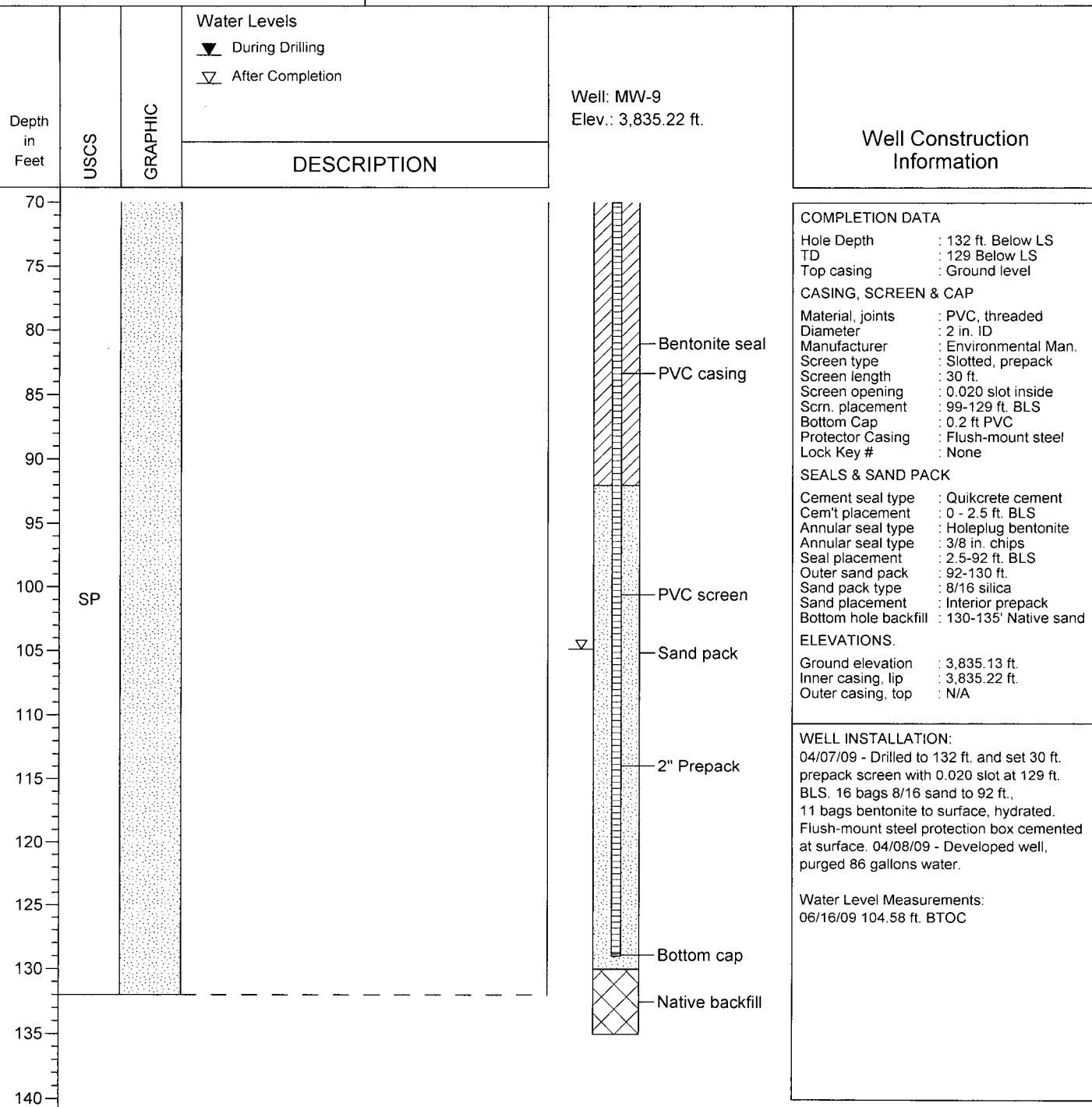
## WELL COMPLETION LOG MW-9

(Page 2 of 2)

Monitor Well 9  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 44.96", W103° 18' 11.95"

Date/Time Started : 04/07/09, 0700  
Date/Time Completed : 04/07/09  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : Brian Cuellar, SESI



Notes:  
H/C - Petroleum hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

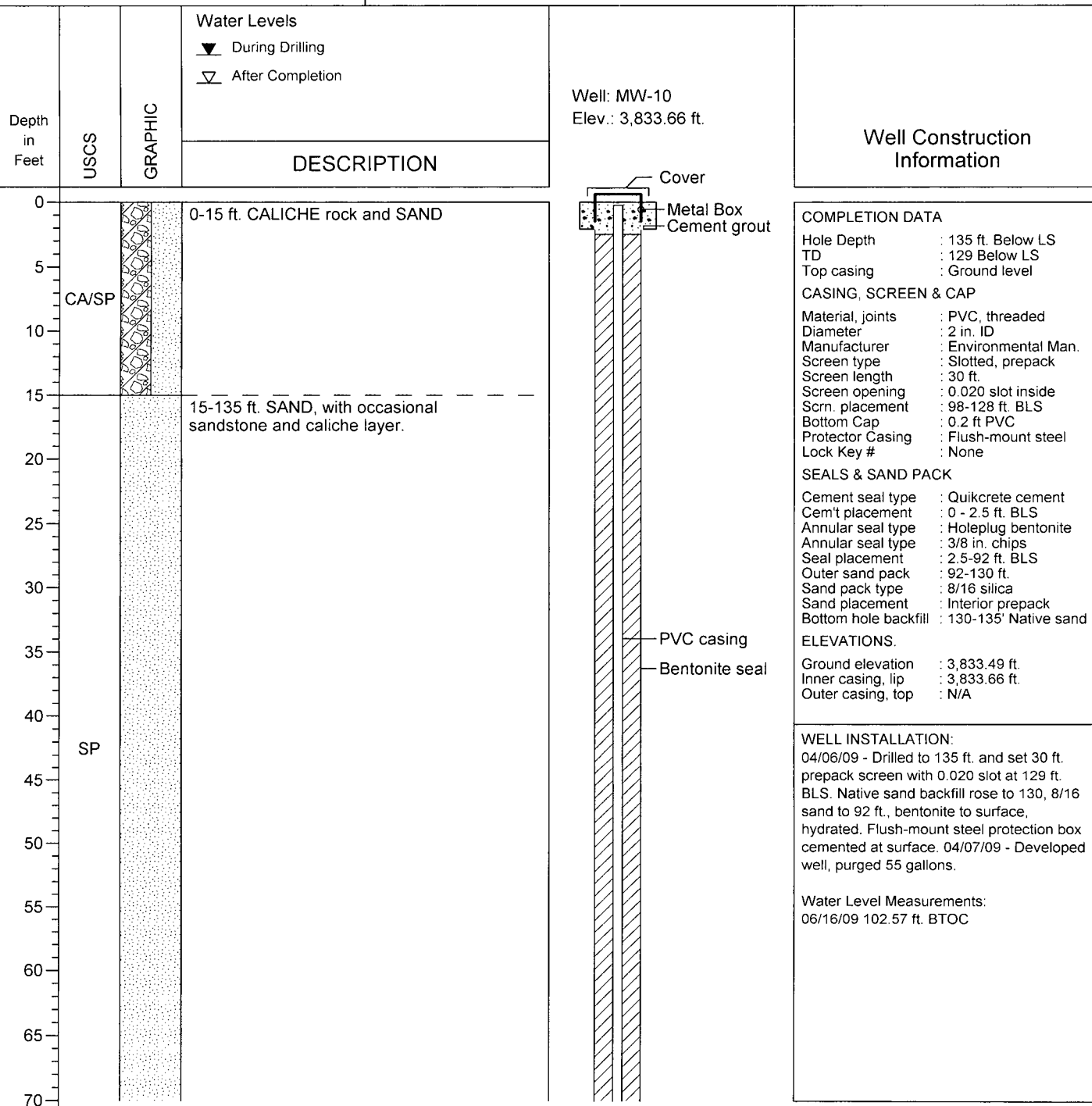
## WELL COMPLETION LOG MW-10

(Page 1 of 2)

Monitor Well 10  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 44.96", W103° 18' 11.95"

Date/Time Started : 04/06/09, 0700  
Date/Time Completed : 04/06/09, 1735  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : Brian Cuellar, SESI



Notes:  
H/C - Petroleum hydrocarbon



**Safety & Environmental  
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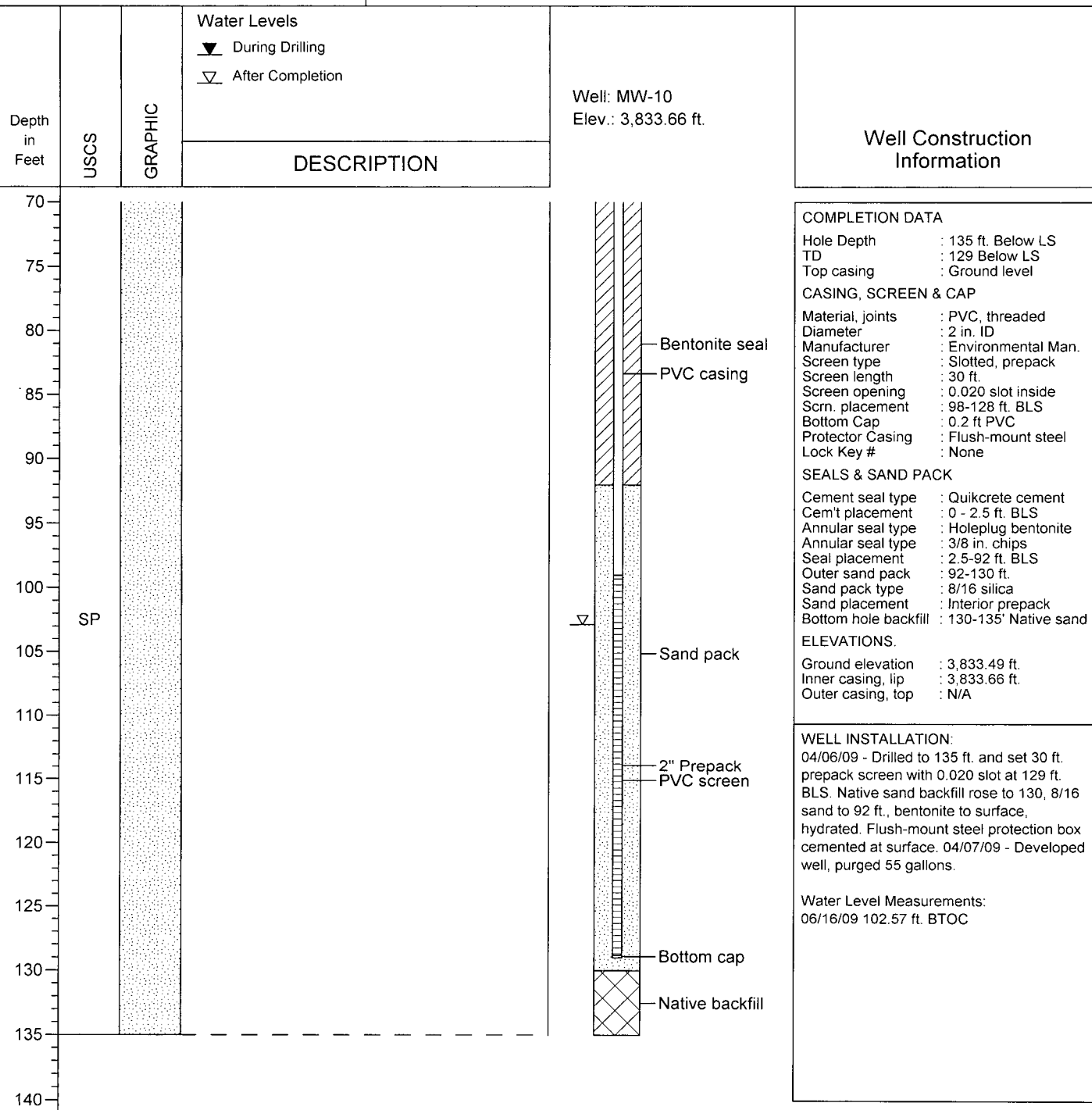
## WELL COMPLETION LOG MW-10

(Page 2 of 2)

Monitor Well 10  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 44.96", W103° 18' 11.95"

Date/Time Started : 04/06/09, 0700  
Date/Time Completed : 04/06/09, 1735  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : Brian Cuellar, SESI



Notes:  
H/C - Petroleum hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

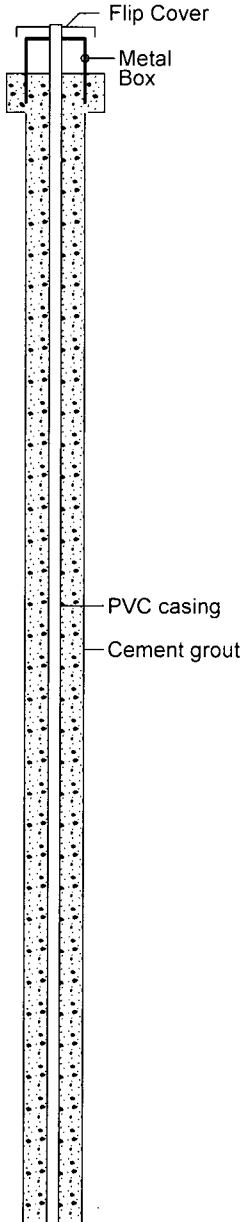
## WELL COMPLETION LOG MW-11

(Page 1 of 2)

Monitor Well 11  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 49.18", W103° 18' 07.95"

Date/Time Started : 04/24/02, 0910  
Date/Time Completed : 04/24/02, 1630  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : Ingersol-Rand A-300

Drilled By : Atkins Engineering  
Sampling Method : Cuttings  
Logged By : David Boyer, PG

| Depth<br>in<br>Feet | USCS | GRAPHIC                                                                             | Water Levels                                       | DESCRIPTION                                                                                                               |  | Well Construction<br>Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------|------|-------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |      |                                                                                     | <p>▼ During Drilling</p> <p>▽ After Completion</p> |                                                                                                                           |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 0                   | AR   |    |                                                    | 0-5 ft. Surface material, asphalt, caliche, gray, wet, slight odor, clayey at 3 ft. Out of moist soil at 5 ft.            |                                                                                     | <b>COMPLETION DATA</b><br><br>Hole Depth : 115 ft. Below LS<br>TD inside casing : 117.5 Below TOC<br>Top casing : 3.4 ft. above ground<br><br><b>CASING, SCREEN &amp; CAP</b><br>Material, joints : PVC, threaded<br>Diameter : 2 in. ID<br>Manufacturer : Laibe<br>Screen type : Slotted, prepack<br>Screen length : 20 ft.<br>Screen opening : 0.030 slot outside<br>Screen opening : 0.010 slot inside<br>Scrn. placement : 95-115 ft. BLS<br>Bottom Cap : 0.2 ft PVC<br>Protector Casing : Above-ground steel<br>Lock Key # : None<br><br><b>SEALS &amp; SAND PACK</b><br>Cement seal type : Cement grout<br>Cem't placement : 0 - 64.5 ft. BLS<br>Annular seal type : Holeplug bentonite<br>Annular seal type : 3/8 in. chips<br>Seal placement : 64.5-68 ft. BLS<br>Sand pack type : 8/16 silica<br>Sand placement : Interior prepack<br>Bottom hole backfill : 68-115 ft. Native fill<br><br><b>ELEVATIONS:</b><br>Ground elevation : 3,836.14<br>Inner casing, lip : 3,839.56<br>Outer casing, top : N/A<br><br><b>WELL INSTALLATION:</b><br>04/24/02: Drilled to 70 feet. Offhole 1400 due to hydraulic leak, auger remains in ground.<br>05/09/02: On site to finish hole. Drilled to 115 feet and installed prepack screen with bottom at 115 feet. Pulled augers and hole collapsed to 68 ft. Bentonite 64.5-68 ft. then cement grout to surface. Cement above-ground steel protection box with concrete pad.<br><br>Water Level Measurements:<br>06/20/02 - 99.93 ft. BTOC |
| 5                   |      |                                                                                     |                                                    | 5-10 ft. SILTY SAND, very light brown, some clay, dry, sandvery fine to fine grained, no H/C odor                         |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 10                  | SM   |    |                                                    | 10-15 ft. SILTY SAND, increased fines, clayey silt, no H/C odor                                                           |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 15                  |      |                                                                                     |                                                    |                                                                                                                           |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 20                  | SC   |   |                                                    | 15-20 ft. CLAYEY SAND, sand very fine grained                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 25                  |      |                                                                                     |                                                    | 20-25 ft. SAND, light brown, very fine to fine grained, no H/C odor                                                       |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 30                  |      |                                                                                     |                                                    | 25-30 ft. SAND, brown, very fine to fine grained, no H/C odor                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 35                  |      |                                                                                     |                                                    | 30-35 ft. SAND, brown, very fine to fine grained, uniform, damp, occasional small gravels (sandstone pieces), 1/4 in.     |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 40                  | SP   |  |                                                    | 35-40 ft. SAND, light brown, fine grained, frequent sandstone gravels to 1/2 in., gravels with CaCO3 cement, very friable |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 45                  |      |                                                                                     |                                                    | 40-45 ft. SAND, light brown, very fine to fine grained, less gravel                                                       |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 50                  |      |                                                                                     |                                                    | 45-50 ft. SAND, light brown, very fine grained                                                                            |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 55                  |      |                                                                                     |                                                    | 50-55 ft. SAND, light brown, very fine grained                                                                            |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 60                  |      |                                                                                     |                                                    | 55-60 ft. SAND, light brown, very fine grained, uniform                                                                   |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

Notes:  
H/C - Petroleum hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

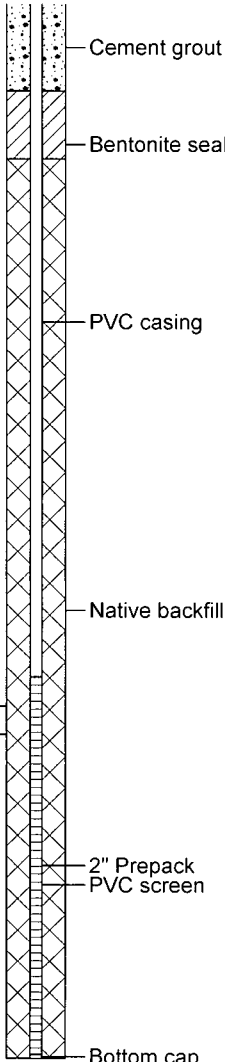
## WELL COMPLETION LOG MW-11

(Page 2 of 2)

Monitor Well 11  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 49.18", W103° 18' 07.95"

Date/Time Started : 04/24/02, 0910  
Date/Time Completed : 04/24/02, 1630  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : Ingersol-Rand A-300

Drilled By : Atkins Engineering  
Sampling Method : Cuttings  
Logged By : David Boyer, PG

| Depth<br>in<br>Feet | USCS  | GRAPHIC | Water Levels                            | DESCRIPTION                                                                                                                      | Well: MW-11<br>Elev.: 3,839.56 | Well Construction<br>Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------|-------|---------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |       |         | ▼ During Drilling<br>▽ After Completion |                                                                                                                                  |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 60                  |       |         |                                         | 60-65 ft. SAND, light brown, very fine grained, no silt                                                                          |                                | <b>COMPLETION DATA</b><br>Hole Depth : 115 ft. Below LS<br>TD Inside casing : 117.5 Below TOC<br>Top casing : 3.4 ft. above ground<br><b>CASING, SCREEN &amp; CAP</b><br>Material, joints : PVC, threaded<br>Diameter : 2 in. ID<br>Manufacturer : Laibe<br>Screen type : Slotted, prepack<br>Screen length : 20 ft.<br>Screen opening : 0.030 slot outside<br>Screen opening : 0.010 slot inside<br>Scrn. placement : 95-115 ft. BLS<br>Bottom Cap : 0.2 ft PVC<br>Protector Casing : Above-ground steel<br>Lock Key # : None<br><b>SEALS &amp; SAND PACK</b><br>Cement seal type : Cement grout<br>Cem't placement : 0 - 64.5 ft. BLS<br>Annular seal type : Holeplug bentonite<br>Annular seal type : 3/8 in. chips<br>Seal placement : 64.5-68 ft. BLS<br>Sand pack type : 8/16 silica<br>Sand placement : Interior prepack<br>Bottom hole backfill : 68-115 ft. Native fill<br><b>ELEVATIONS.</b><br>Ground elevation : 3,836.14<br>Inner casing, lip : 3,839.56<br>Outer casing, top : N/A<br><b>WELL INSTALLATION:</b><br>04/24/02: Drilled to 70 feet. Offhole 1400 due to hydraulic leak, auger remains in ground.<br>05/09/02: On site to finish hole. Drilled to 115 feet and installed prepack screen with bottom at 115 feet. Pulled augers and hole collapsed to 68 ft. Bentonite 64.5-68 ft. then cement grout to surface. Cement above-ground steel protection box with concrete pad.<br><br>Water Level Measurements:<br>06/20/02 - 99.93 ft. BTOC |
| 65                  |       |         |                                         | 65-70 ft. SAND, light brown, very fine grained, occasional sandstone pieces (gravel)                                             |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 70                  | SP    |         |                                         | 70-75 ft. SAND, brown, very fine grained, slightly moist                                                                         |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 75                  |       |         |                                         | 75-80 ft. SAND, brown, very fine grained, sandstone with CaCO <sub>3</sub> cement from 77-78 ft.                                 |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 80                  | CL    |         |                                         | 80-85 ft. SANDY CLAY, light gray, moist, no H/C odor                                                                             |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 85                  | SC    |         |                                         | 85-90 ft. CLAYEY SAND, brown, fine grained, no H/C odor                                                                          |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 90                  | SP    |         |                                         | 90-94 ft. SAND, brown, fine grained, damp, no H/C odor                                                                           |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 95                  | SC    |         |                                         | 94-95 ft. CLAYEY SAND                                                                                                            |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                     | SC/SP |         |                                         | 95-100 ft. CLAYEY SAND grading to SAND, light brown, fine grained, moist, slight non-descript odor, water about 97 ft.           |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 100                 |       |         |                                         | 100-105 ft. No returns during drilling. On auger flight - SAND, brown, fine grained, moist, H/C odor                             |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 105                 | SP    |         |                                         | 105-110 ft. No returns during drilling. On auger flight - SAND, brown, fine to very fine grained, possible H/C odor, no staining |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 110                 |       |         |                                         | 110-115 ft. SAND, brown, fine to very fine grained, possible H/C odor, no staining, clay on auger tip (likely residual)          |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 115                 |       |         |                                         |                                                                                                                                  |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 120                 |       |         |                                         |                                                                                                                                  |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Notes:  
H/C - Petroleum hydrocarbon



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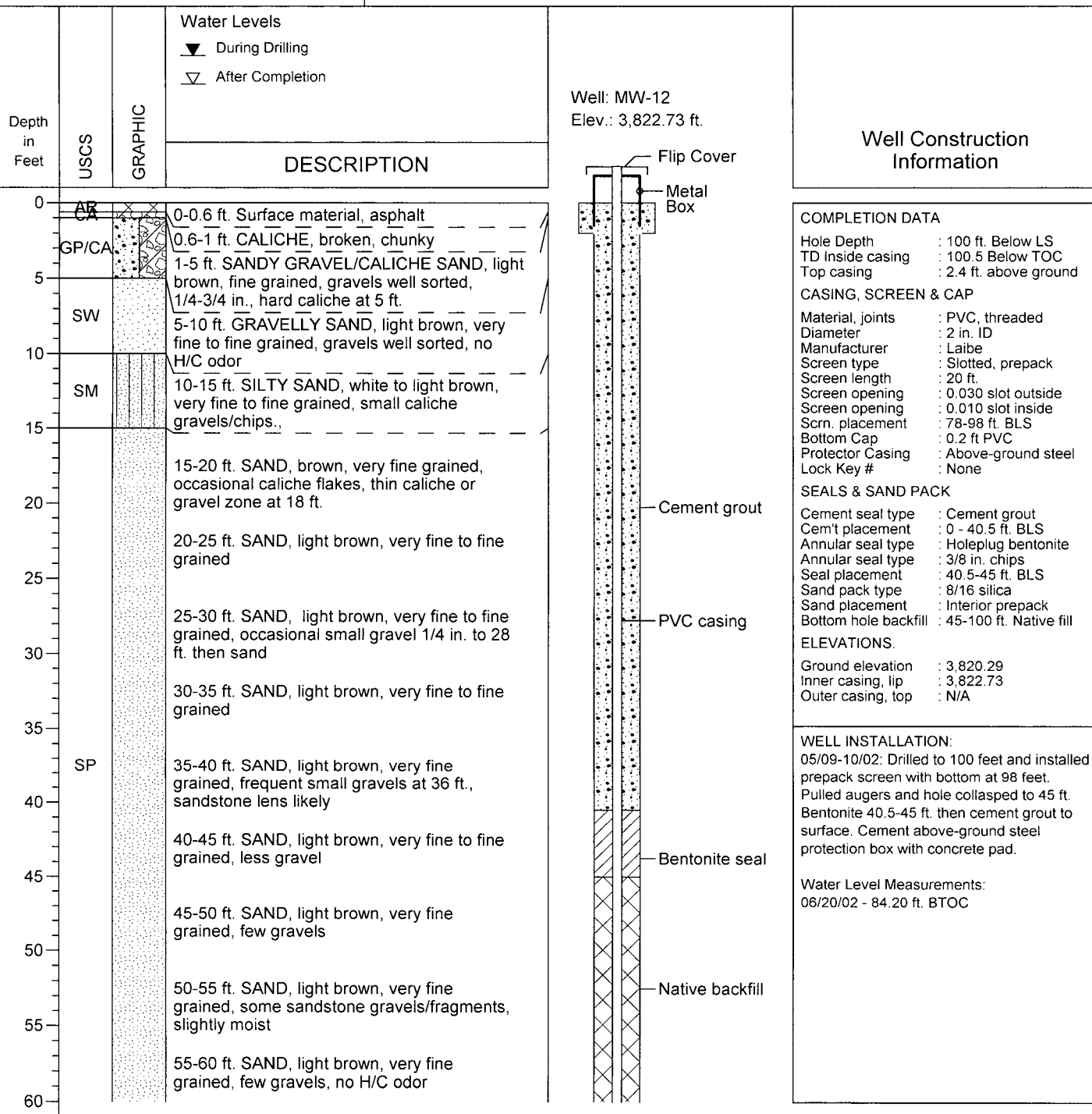
## WELL COMPLETION LOG MW-12

(Page 1 of 2)

Monitor Well 12  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E  
Lea County, New Mexico  
N32° 52' 27.55", W103° 17' 55.36"

Date/Time Started : 05/09/02, 1730  
Date/Time Completed : 05/10/02, 1445  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : Ingersol-Rand A-300

Drilled By : Atkins Engineering  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



**Notes:**

H/C - Petroleum hydrocarbon



**Safety & Environmental  
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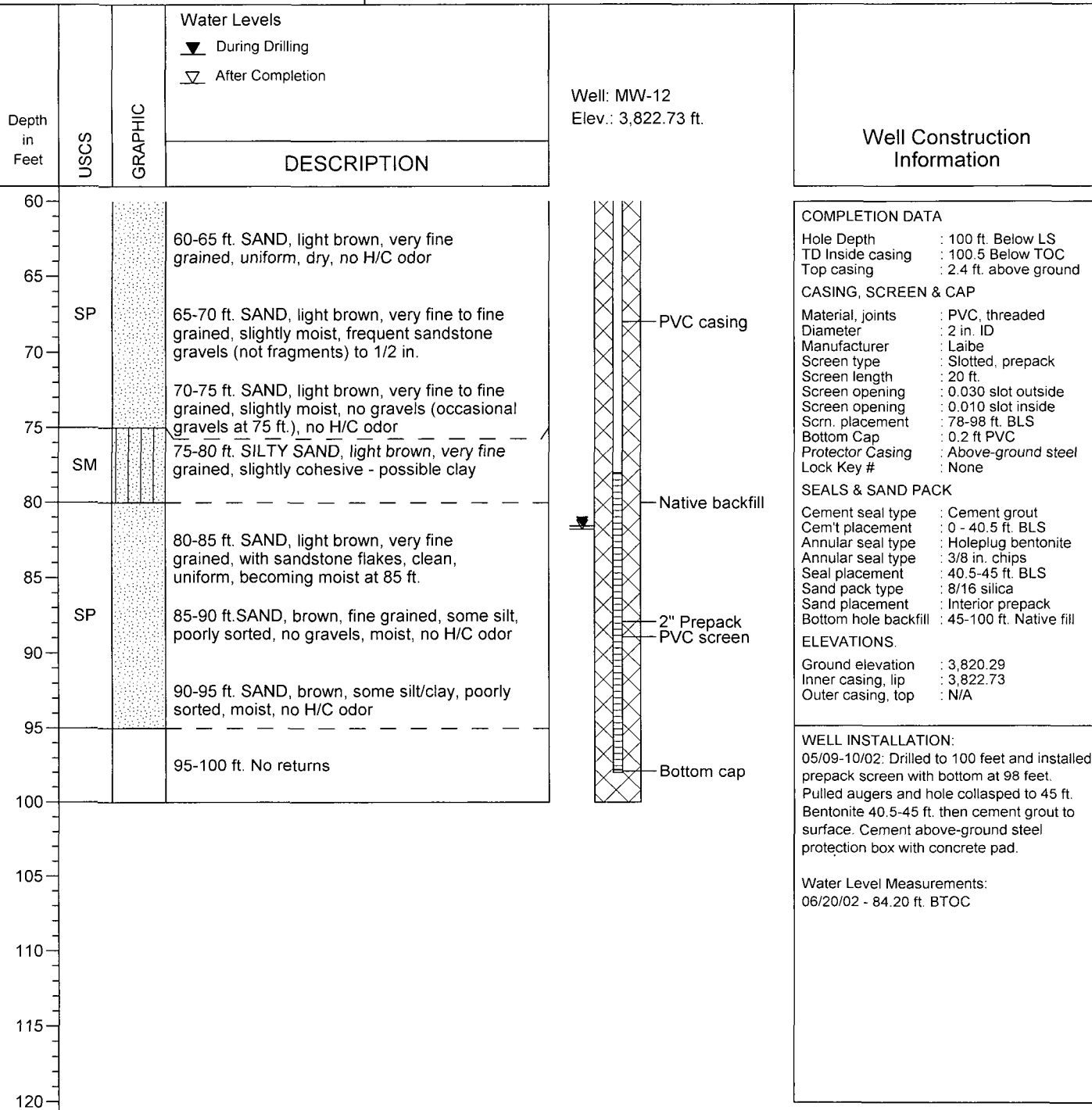
## WELL COMPLETION LOG MW-12

(Page 2 of 2)

Monitor Well 12  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E  
Lea County, New Mexico  
N32° 52' 27.55", W103° 17' 55.36"

Date/Time Started : 05/09/02, 1730  
Date/Time Completed : 05/10/02, 1445  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : Ingersol-Rand A-300

Drilled By : Atkins Engineering  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



**Safety & Environmental  
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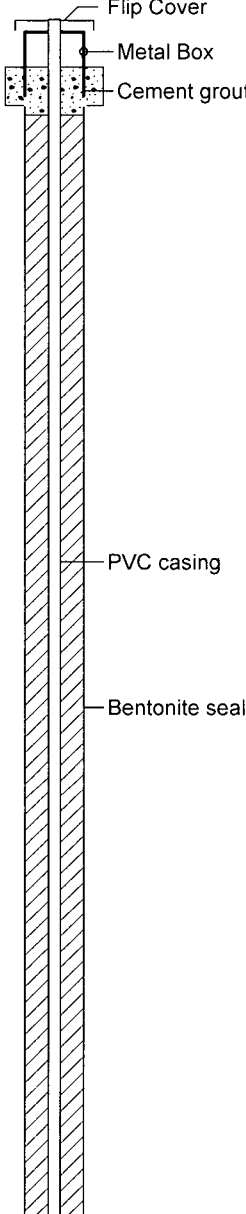
## WELL COMPLETION LOG MW-13

(Page 1 of 2)

Monitor Well 13  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 46.36", W103° 18' 4.42"

Date/Time Started : 12/19/03, 1530  
Date/Time Completed : 01/03/04  
Hole Diameter : 8 1/4 in.  
Drilling Method : Air Rotary, 12/19/03  
Drilling Equipment : Ingersol-Rand T2W

Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-75, 1/3/04  
Drilled By : Eco Drilling, Midland, TX  
Sampling Method : Cuttings  
Logged By : David Boyer, PG

| Depth<br>in<br>Feet | USCS | GRAPHIC                                                                             | Water Levels                            | DESCRIPTION                                                                                                                              |  | Well Construction<br>Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|------|-------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |      |                                                                                     | ▼ During Drilling<br>▽ After Completion |                                                                                                                                          |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 0                   | CA   |    |                                         | 0-5 ft. CALICHE, drilled in 6 in. increments to check for buried lines                                                                   |                                                                                     | <b>COMPLETION DATA</b><br>Hole Depth : 117 ft. Below LS<br>TD Inside casing : 119.7 Below TOC<br>Top casing : 2.4 ft. above ground<br><b>CASING, SCREEN &amp; CAP</b><br>Material, joints : PVC, threaded<br>Diameter : 2 in. ID<br>Manufacturer : N/A<br>Screen type : Slotted<br>Screen length : 20 ft.<br>Screen opening : 0.010 slot<br>Scrn. placement : 96-116 ft. BLS<br>Bottom Cap : 0.2 ft PVC<br>Protector Casing : Above-ground steel<br>Lock Key # : None<br><b>SEALS &amp; SAND PACK</b><br>Cement seal type : Quikcrete cement<br>Cem't placement : 0 - 2.5 ft. BLS<br>Annular seal type : Bentonite<br>Annular seal type : 3/8 in. chips<br>Seal placement : 2.5-91.8 ft. BLS<br>Sand pack type : 8/16 silica<br>Sand placement : 91.8-100 ft<br>Bottom hole backfill : 100-118 ft. Native fill<br><b>ELEVATIONS:</b><br>Ground elevation : 3,834.75<br>Inner casing, lip : 3,837.06<br>Outer casing, top : N/A<br><b>WELL INSTALLATION:</b><br>12/19/03 - Drilled with air rotary rig to 115 ft. Formation caving, flowing sand, no way to keep hole open, ceased drilling, pulled pipe.<br>12/31/03 - Drilling with hollow stem auger. Hole caved in to 82 ft.<br>1/2/04 - Drilling to 105 ft. when interior rods drop to 118 ft. Need fishing tool.<br>1/3/04 - Drillers fish tools out of hole. Set 20 feet 0.010 in. screen, 96-116 ft., 10 bags sand to 91.8 ft., 33 bags bentonite to 2.5 ft., 5 bags Quikcrete to surface, above ground steel protection box.<br>1/23/04 - Well developed by purging 63 gallons water with pump.<br><br><b>Water Level Measurements:</b><br>01/03/04 - 100.93 ft. BTOC<br>04/30/04 - 101.41 ft. BTOC |
| 5                   |      |                                                                                     |                                         | 5 ft. SAND, light brown, very fine to fine grained, occasional small caliche fragments, no H/C odor                                      |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 10                  |      |                                                                                     |                                         | 10 ft. SAND, light brown, very fine to fine grained, uniform, occasional caliche/sandstone fragments to 3/4 in., no H/C staining or odor |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 15                  |      |                                                                                     |                                         | 15 ft. SAND, light brown, very fine to fine grained, occasional caliche/sandstone fragments to 1/4 in., no H/C staining or odor          |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 20                  |      |                                                                                     |                                         | 20 ft. SAND, light brown, very fine to fine grained                                                                                      |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 25                  |      |                                                                                     |                                         | 25 ft. SAND, light brown, fine grained, slightly damp, no H/C staining or odor                                                           |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 30                  | SP   |  |                                         | 30 ft. SAND, light brown, fine grained, occasional sandstone fragments to 1/2 in., no H/C staining or odor                               |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 35                  |      |                                                                                     |                                         | 35 ft. SAND, light brown, fine grained, occasional sandstone fragments to 3/4 in., drill chatter at 25 ft.                               |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 40                  |      |                                                                                     |                                         | 40 ft. SAND, very light brown, very fine to fine grained, no H/C staining or odor                                                        |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 45                  |      |                                                                                     |                                         | 45 ft. SAND, very light brown, very fine to fine grained, no H/C staining or odor                                                        |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 50                  |      |                                                                                     |                                         | 50 ft. SAND, very light brown, very fine to fine grained, occasional sandstone chips/fragments, no H/C staining or odor                  |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 55                  |      |                                                                                     |                                         | 55 ft. SAND, light brown, very fine grained, occasional sandstone fragments, no H/C staining or odor                                     |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 60                  |      |                                                                                     |                                         | 60 ft. SAND, light brown, very fine grained                                                                                              |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Notes:**

H/C - Petroleum hydrocarbon





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Solutions, Inc.**

## WELL COMPLETION LOG MW-13

(Page 2 of 2)

Monitor Well 13  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 46.36", W103° 18' 4.42"

Date/Time Started : 12/19/03, 1530  
Date/Time Completed : 01/03/04  
Hole Diameter : 8 1/4 in.  
Drilling Method : Air Rotary, 12/19/03  
Drilling Equipment : Ingersol-Rand T2W

Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-75, 1/3/04  
Drilled By : Eco Drilling, Midland, TX  
Sampling Method : Cuttings  
Logged By : David Boyer, PG

| Depth<br>in<br>Feet | USCS | GRAPHIC | Water Levels                            | DESCRIPTION                                                                                                             | Well: MW-13<br>Elev.: 3,837.06 ft. | Well Construction<br>Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|------|---------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |      |         | ▼ During Drilling<br>▽ After Completion |                                                                                                                         |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 60                  |      |         |                                         |                                                                                                                         |                                    | <b>COMPLETION DATA</b><br>Hole Depth : 117 ft. Below LS<br>TD Inside casing : 119.7 Below TOC<br>Top casing : 2.4 ft. above ground<br><b>CASING, SCREEN &amp; CAP</b><br>Material, joints : PVC, threaded<br>Diameter : 2 in. ID<br>Manufacturer : N/A<br>Screen type : Slotted<br>Screen length : 20 ft.<br>Screen opening : 0.010 slot<br>Scrn. placement : 96-116 ft. BLS<br>Bottom Cap : 0.2 ft PVC<br>Protector Casing : Above-ground steel<br>Lock Key # : None<br><b>SEALS &amp; SAND PACK</b><br>Cement seal type : Quikcrete cement<br>Cem't placement : 0 - 2.5 ft. BLS<br>Annular seal type : Bentonite<br>Annular seal type : 3/8 in. chips<br>Seal placement : 2.5-91.8 ft. BLS<br>Sand pack type : 8/16 silica<br>Sand placement : 91.8-100 ft<br>Bottom hole backfill : 100-118 ft. Native fill<br><b>ELEVATIONS</b><br>Ground elevation : 3,834.75<br>Inner casing, lip : 3,837.06<br>Outer casing, top : N/A<br><b>WELL INSTALLATION:</b><br>12/19/03 - Drilled with air rotary rig to 115 ft. Formation caving, flowing sand, no way to keep hole open, ceased drilling, pulled pipe.<br>12/31/03 - Drilling with hollow stem auger. Hole caved in to 82 ft.<br>1/2/04 - Drilling to 105 ft. when interior rods drop to 118 ft. Need fishing tool.<br>1/3/04 - Drillers fish tools out of hole. Set 20 feet 0.010 in. screen, 96-116 ft., 10 bags sand to 91.8 ft., 33 bags bentonite to 2.5 ft., 5 bags Quikcrete to surface, above ground steel protection box.<br>1/23/04 - Well developed by purging 63 gallons water with pump.<br><br><b>Water Level Measurements:</b><br>01/03/04 - 100.93 ft. BTOC<br>04/30/04 - 101.41 ft. BTOC |
| 65                  |      |         |                                         | 65 ft. SAND, very light brown, very fine grained, occasional sandstone fragments to 1/4 in., no H/C staining or odor    |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 70                  |      |         |                                         | 70 ft. SAND, very light brown, very fine grained                                                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 75                  |      |         |                                         | 75 ft. SAND, very light brown, very fine grained, no H/C staining or odor                                               |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 80                  |      |         |                                         | 80 ft. SAND, very light brown, very fine grained                                                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 85                  |      |         |                                         | 85 ft. SAND, very light brown, very fine grained                                                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 90                  | SP   |         |                                         | 90 ft. SAND, light brown, very fine grained, slightly damp                                                              |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 95                  |      |         |                                         | 95 ft. SAND, light brown, very fine grained, uniform, slightly damp, no H/C staining or odor, drill reports getting wet |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 100                 |      |         |                                         | 100 ft. SAND, light brown, very fine grained, uniform, damp, no H/C staining or odor                                    |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 105                 |      |         |                                         | 105 ft. SAND, light brown, very fine grained, wet, no H/C staining or odor                                              |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 110                 |      |         |                                         | 110 ft. SAND, light brown, very fine grained, wet                                                                       |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 115                 |      |         |                                         | 110-115 ft. Formation caving, flowing SAND                                                                              |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 120                 |      |         |                                         |                                                                                                                         |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Notes:  
H/C - Petroleum hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

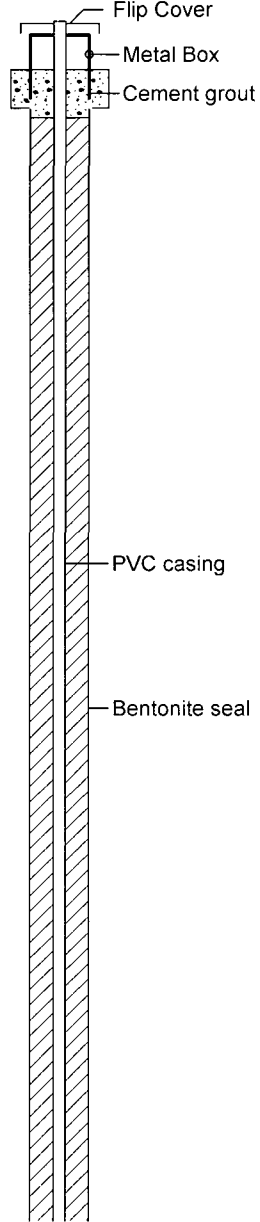
# WELL COMPLETION LOG MW-14

(Page 1 of 2)

Monitor Well 14  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E  
Lea County, New Mexico  
N32° 52' 25.43", W103° 17' 54.18"

Date/Time Started : 01/05/04, 1300  
Date/Time Completed : 02/05/04  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-75, 1/3/04

Drilled By : Eco Drilling, Midland, TX  
Sampling Method : Cuttings  
Logged By : David Boyer, PG

| Depth<br>in<br>Feet | USCS | GRAPHIC                                                                             | Water Levels                                                                                                                                                                                            | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                          |  | Well Construction<br>Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |      |                                                                                     |  During Drilling<br> After Completion |                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0                   | CA   |    |                                                                                                                                                                                                         | 0-3 ft. CALICHE, white, hard                                                                                                                                                                                                                                                                                                                                                                         |                                                                                     | <b>COMPLETION DATA</b><br>Hole Depth : 105 ft. Below LS<br>TD Inside casing : 105.11 Below TOC<br>Top casing : 2.6 ft. above ground<br><b>CASING, SCREEN &amp; CAP</b><br>Material, joints : PVC, threaded<br>Diameter : 2 in. ID<br>Manufacturer : N/A<br>Screen type : Slotted<br>Screen length : 20 ft.<br>Screen opening : 0.010 slot, prepacked<br>Scrn. placement : 82.5-102.5 ft. BLS<br>Bottom Cap : 0.2 ft PVC<br>Protector Casing : Above-ground steel<br>Lock Key # : None<br><b>SEALS &amp; SAND PACK</b><br>Cement seal type : Quikcrete cement<br>Cem't placement : 0 - 2.5 ft. BLS<br>Annular seal type : Bentonite<br>Annular seal type : 3/8 in. chips<br>Seal placement : 2.5-69.4 ft. BLS<br>Sand pack type : N/A<br>Sand placement : N/A<br>Bottom hole backfill : 69.4-105 ft. Native fill<br><b>ELEVATIONS:</b><br>Ground elevation : 3,820.38<br>Inner casing, lip : 3,823.03<br>Outer casing, top : N/A<br><b>WELL INSTALLATION:</b><br>1/5/04 - drill to 60 ft.<br>1/6/04 - drill to 85 ft. when transfer case chain broke<br>1/9/04 - drill to 100 ft. and install screen, sand, bentonite and cement<br>1/16-23/04 - tried to develop well, sanding, conclude casing parted down hole<br>1/24/04 - drillers on site to P&A hole and drill new one. Place 30 bags bentonite to plug, hydrated.<br>1/24/04 - drill to 105 ft., screen stuck in auger, unable to complete<br>2/5/04 - drillers onsite to complete second monitor well. Install 20 ft. prepack screen, 82.5-102.5 ft., 30 bags bentonite to 69.4 ft. to 2.5 ft., 4 bags Quikcrete to surface, above ground steel protection box.<br>Water Level Measurements:<br>02/05/04 - 87.43 ft. BTOC<br>04/30/04 - 87.46 ft. BTOC |
| 5                   | SM   |    |                                                                                                                                                                                                         | 3-5 ft. SILTY SAND, light brown, with abundant caliche gravels to 1 in. (silt may be ground up caliche powder), no H/C staining or odor<br>5-10 ft. SILTY SAND, very light brown, abundant caliche chips, fragments to 1/4 in.                                                                                                                                                                       |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 10                  |      |                                                                                     |                                                                                                                                                                                                         | 10-15 ft. SAND, light brown, very fine grained, traces of silt, frequent small caliche chips/fragments to 1/4 in., no H/C staining or odor<br>15-20 ft. SAND, light brown, very fine grained, traces of silt, abundant caliche chips/fragments to 1/2 in., no H/C staining or odor<br>20-25 ft. SAND, brown, very fine grained, frequent caliche chips/fragments to 1/2 in., no H/C staining or odor |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 15                  |      |                                                                                     |                                                                                                                                                                                                         | 25-30 ft. SAND, very light brown, very fine grained, traces of silt, occasional chips/fragments to 1/4 in., no H/C staining or odor<br>30-35 ft. SAND, light brown, very fine grained, occasional chips/fragments to 1/2 in., little silt, no H/C staining or odor                                                                                                                                   |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 20                  |      |                                                                                     |                                                                                                                                                                                                         | 35-40 ft. SAND, light brown, very fine to fine grained, uniform, no H/C staining or odor<br>40-45 ft. SAND, light brown, very fine to fine grained, uniform, no H/C staining or odor                                                                                                                                                                                                                 |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 25                  |      |                                                                                     |                                                                                                                                                                                                         | 45-50 ft. SAND, light brown, very fine to fine grained, uniform, no H/C staining or odor<br>50-55 ft. SAND, light brown, very fine to fine grained, uniform, no H/C staining or odor                                                                                                                                                                                                                 |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 30                  |      |                                                                                     |                                                                                                                                                                                                         | 55-60 ft. SAND, light brown, very fine to fine grained, uniform, no H/C staining or odor                                                                                                                                                                                                                                                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 35                  | SP   |  |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 40                  |      |                                                                                     |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 45                  |      |                                                                                     |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 50                  |      |                                                                                     |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 55                  |      |                                                                                     |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 60                  |      |                                                                                     |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

Notes:  
H/C - Petroleum hydrocarbon



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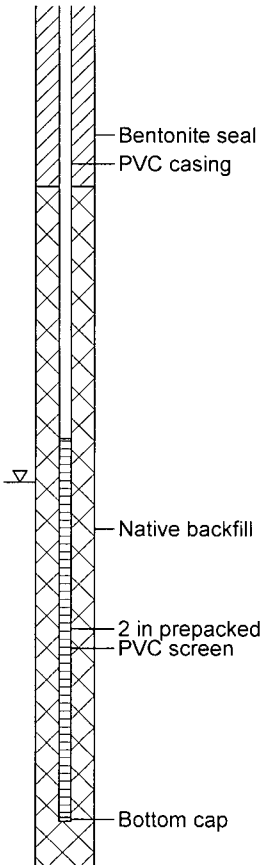
## WELL COMPLETION LOG MW-14

(Page 2 of 2)

Monitor Well 14  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E  
Lea County, New Mexico  
N32° 52' 25.43", W103° 17' 54.18"

Date/Time Started : 01/05/04, 1300  
Date/Time Completed : 02/05/04  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-75, 1/3/04

Drilled By : Eco Drilling, Midland, TX  
Sampling Method : Cuttings  
Logged By : David Boyer, PG

| Depth<br>in<br>Feet | USCS | GRAPHIC | Water Levels                                                                                                       | Well: MW-14<br>Elev.: 3,823.03 ft.                                                  | Well Construction<br>Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------|------|---------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |      |         | ▼ During Drilling<br>▽ After Completion                                                                            |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                     |      |         | DESCRIPTION                                                                                                        |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 60                  |      |         | 60-65 ft. SAND, light brown, very fine grained, uniform, no H/C staining or odor                                   |  | <b>COMPLETION DATA</b><br>Hole Depth : 105 ft. Below LS<br>TD inside casing : 105.11 Below TOC<br>Top casing : 2.6 ft. above ground<br><b>CASING, SCREEN &amp; CAP</b><br>Material, joints : PVC, threaded<br>Diameter : 2 in. ID<br>Manufacturer : N/A<br>Screen type : Slotted<br>Screen length : 20 ft.<br>Screen opening : 0.010 slot, prepacked<br>Scrn. placement : 82.5-102.5 ft. BLS<br>Bottom Cap : 0.2 ft PVC<br>Protector Casing : Above-ground steel<br>Lock Key # : None<br><b>SEALS &amp; SAND PACK</b><br>Cement seal type : Quikcrete cement<br>Cem't placement : 0 - 2.5 ft. BLS<br>Annular seal type : Bentonite<br>Annular seal type : 3/8 in. chips<br>Seal placement : 2.5-69.4 ft. BLS<br>Sand pack type : N/A<br>Sand placement : N/A<br>Bottom hole backfill : 69.4-105 ft. Native fill<br><b>ELEVATIONS.</b><br>Ground elevation : 3,820.38<br>Inner casing, lip : 3,823.03<br>Outer casing, top : N/A<br><b>WELL INSTALLATION:</b><br>1/5/04 - drill to 60 ft.<br>1/6/04 - drill to 85 ft. when transfer case chain broke<br>1/9/04 - drill to 100 ft. and install screen, sand, bentonite and cement<br>1/16-23/04 - tried to develop well, sanding, conclude casing parted down hole<br>1/24/04 - drillers on site to P&A hole and drill new one. Place 30 bags bentonite to plug, hydrated.<br>1/24/04 - drill to 105 ft., screen stuck in auger, unable to complete<br>2/5/04 - drillers onsite to complete second monitor well. Install 20 ft. prepack screen, 82.5-102.5 ft., 30 bags bentonite to 69.4 ft. to 2.5 ft., 4 bags Quikcrete to surface, above ground steel protection box.<br><b>Water Level Measurements:</b><br>02/05/04 - 87.43 ft. BTOC<br>04/30/04 - 87.46 ft. BTOC |
| 65                  |      |         | 65-70 ft. SAND, light brown, very fine grained, uniform, no H/C staining or odor                                   |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 70                  |      |         | 70-75 ft. SAND, light brown, very fine grained, uniform, frequent small caliche/sandstone chips/fragments <1/4 in. |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 75                  |      |         | 75-80 ft. SAND, light brown, very fine grained, uniform, some small chips/fragments <1/8 in.                       |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 80                  |      |         | 80-85 ft. SAND, light brown, very fine grained, uniform, some small chips/fragments <1/8 in.                       |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 85                  | SP   |         | 85-90 ft. SAND, light brown, very fine grained, uniform, wet, no H/C staining or odor                              |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 90                  |      |         | 90-95 ft. SAND, light brown, very fine grained, uniform, wet, no H/C staining or odor                              |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 95                  |      |         | 95-100 ft. SAND, light brown, very fine grained, uniform, wet, no H/C staining or odor                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 100                 |      |         |                                                                                                                    |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 105                 |      |         |                                                                                                                    |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 110                 |      |         |                                                                                                                    |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 115                 |      |         |                                                                                                                    |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 120                 |      |         |                                                                                                                    |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Notes:**

H/C - Petroleum hydrocarbon



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# LOG OF WELL MW-15

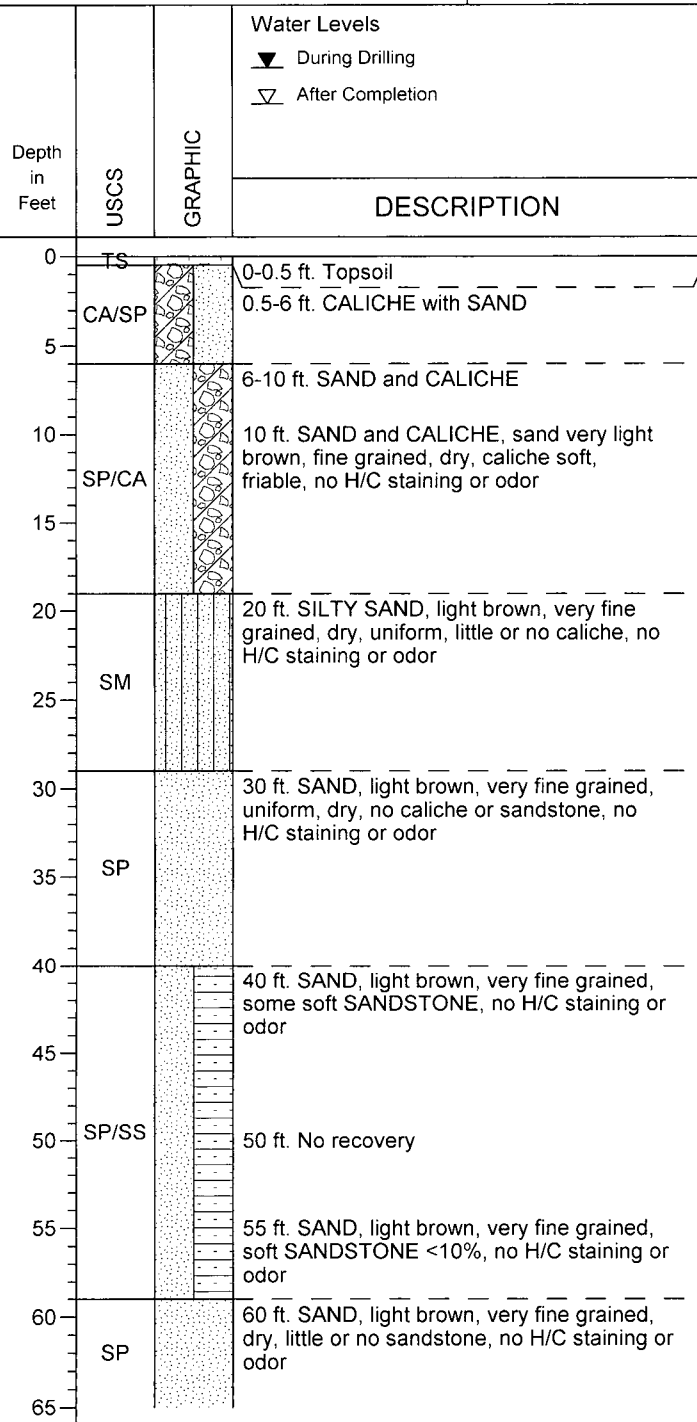
(Page 1 of 2)

Monitor Well 15  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

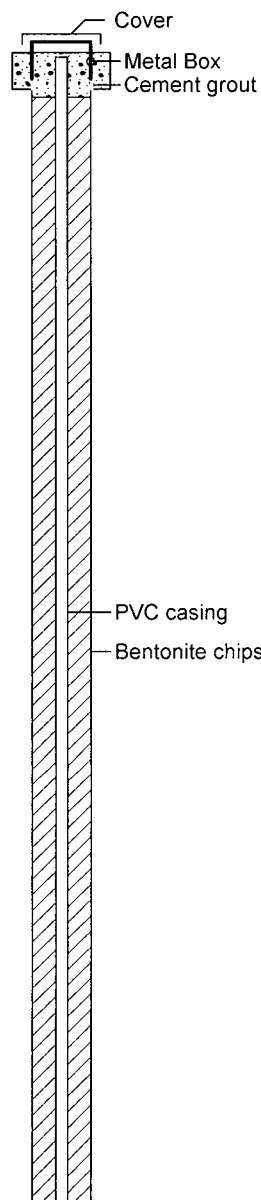
Lea County, New Mexico  
N32° 52' 56.43", W103° 18' 15.69"

Date, Time Started : 05/22/10, 1430  
Date, Time Complete : 05/22/10, 1140  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



Well: MW-15  
Elev.: 3,840.19 ft.



## Well Construction Information

### COMPLETION DATA

Hole Depth : 125 ft. Below LS  
TD : 122 Below LS  
Top casing : Ground level

### CASING, SCREEN & CAP

Material, joints : PVC, threaded  
Diameter : 2 in. ID  
Manufacturer : Cuvo Env. Pipe  
Screen type : Slotted, prepack  
Screen length : 20 ft.  
Screen opening : 0.020 slot inside  
Scrn. placement : 102-122 ft. BLS  
Bottom Cap : 0.2 ft PVC  
Protector Casing : Flush-mount steel  
Lock Key # : None

### SEALS & SAND PACK

Cement seal type : Quikcrete cement  
Cem't placement : 0 - 2.5 ft. BLS  
Annular seal type : Holeplug bentonite  
Annular seal type : 3/8 in. chips  
Annular seal vol. : 53 bags  
Seal placement : 2.5-100 ft. BLS  
Outer sand pack : 100 to ~114 ft.  
Outer sand volume : 7 bags 8/16 silica  
Sand pack type : Carmeuse silica  
Sand placement : Interior prepack  
Bottom hole backfill : 114'-125' Native sand backfill

### ELEVATIONS

Ground elevation : 3,840.54 ft.  
Inner casing, lip : 3,840.19 ft.  
Outer casing, top : N/A

### WELL INSTALLATION:

05/23/10 - Drilled to 125 ft. and set 20 ft. prepack screen with 0.020 slot from 102-122 ft. BLS. Native sand backfill rose to ~114 ft., 8/16 sand to 100 ft., bentonite to surface, hydrated.  
Flush-mount steel protection box cemented at surface. 06/29/10 and 07/08/10 - Developed well, purged 255 gallons.

### Water Level Measurements:

Drilling: 106.9 ft. BLS  
06/29/10: 106.85 ft. BTOC  
08/11/10: 106.94 ft. BTOC

### Notes:

Drilled to 125 ft. and completed as MW-15  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

**LOG OF WELL MW-15**

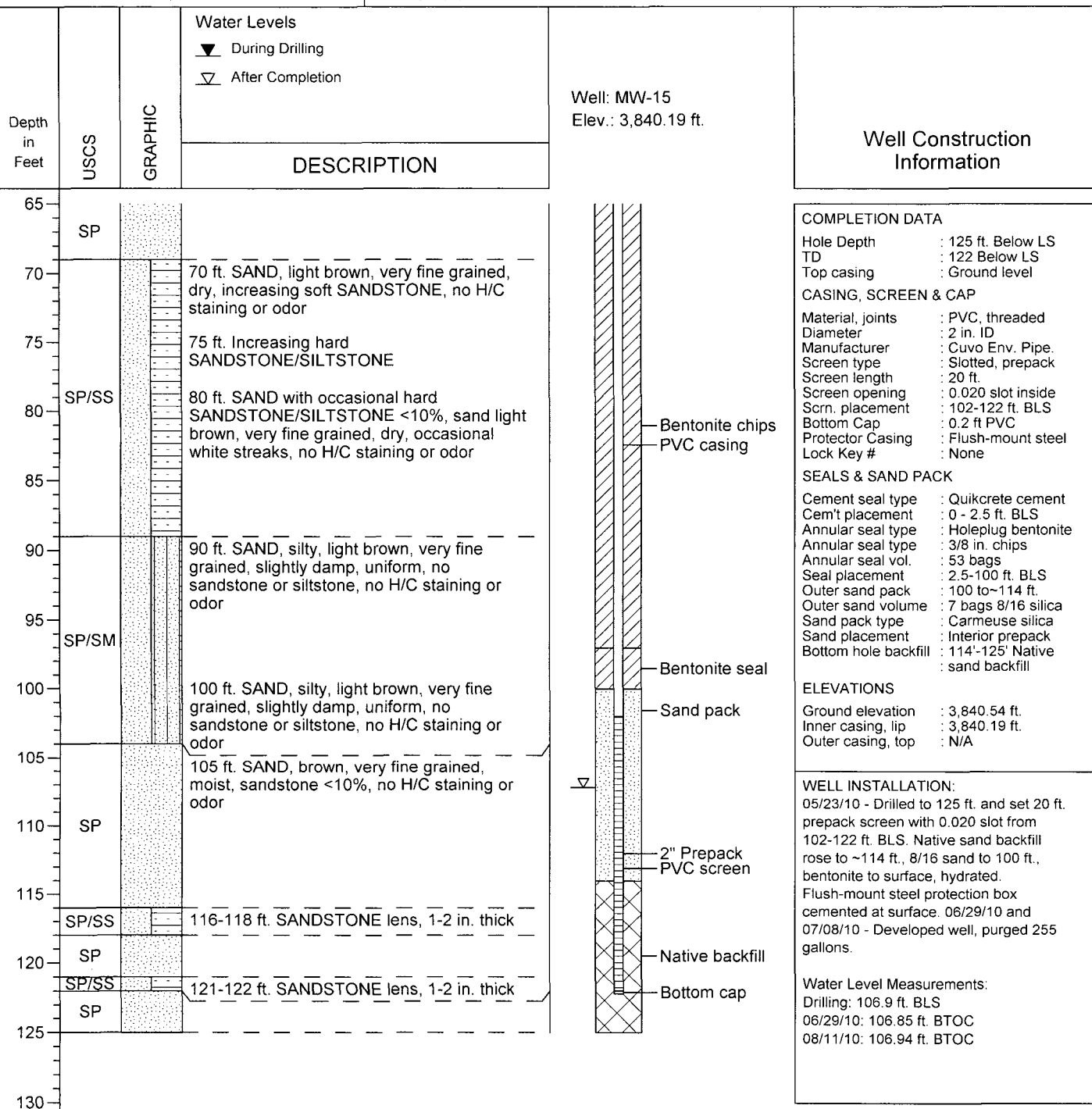
(Page 2 of 2)

Monitor Well 15  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 56.43", W103° 18' 15.69"

Date, Time Started : 05/22/10, 1430  
Date, Time Complete : 05/22/10, 1140  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**Notes:**

Drilled to 125 ft. and completed as MW-15  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



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# LOG OF WELL MW-16

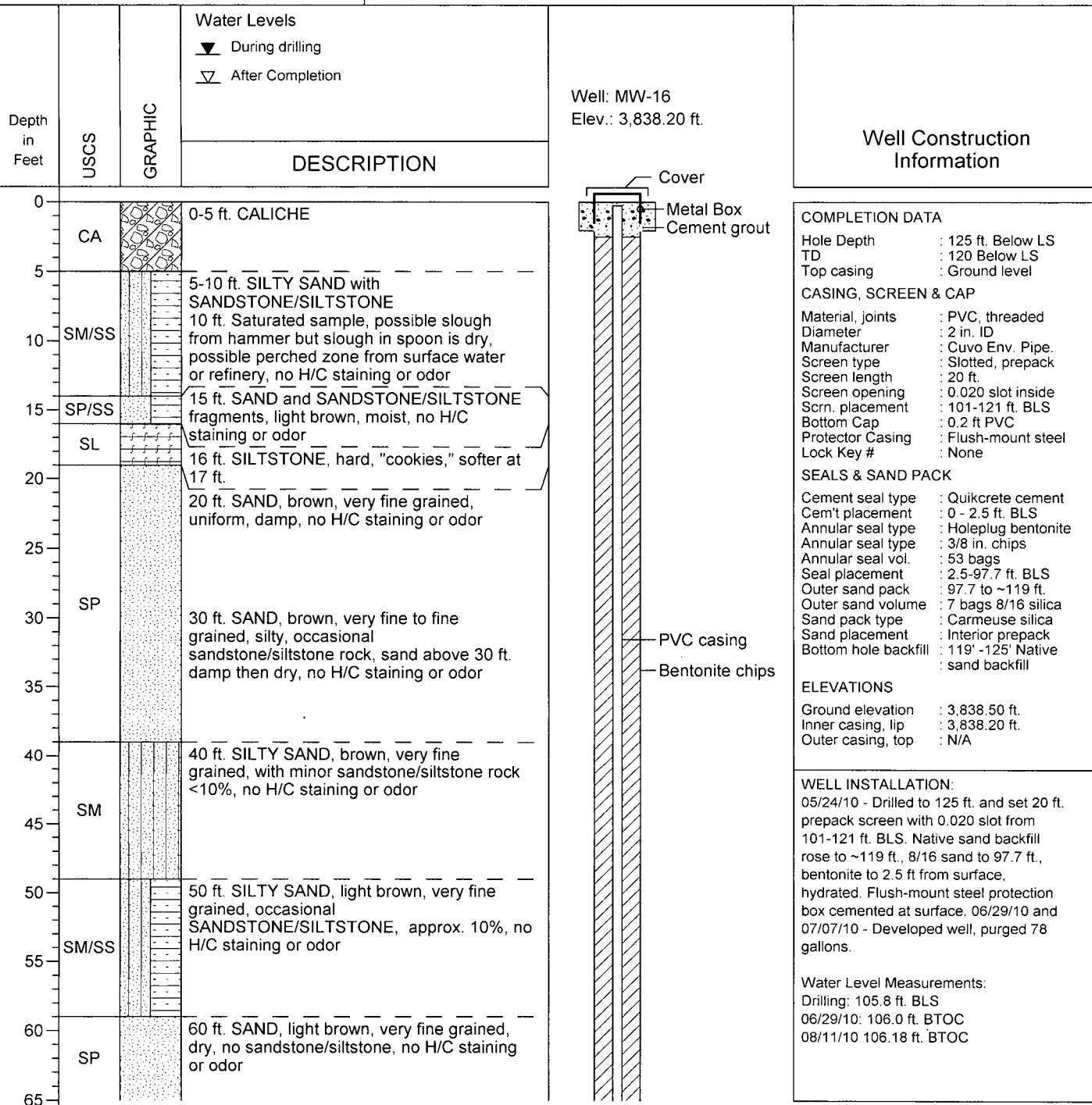
(Page 1 of 2)

Monitor Well 16  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.60", W103° 18' 17.79"

Date, Time Started : 05/24/10, 0930  
Date, Time Complete : 05/25/10, 0900  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



Notes:  
Drilled to 125 ft. and completed as MW-16  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

## LOG OF WELL MW-16

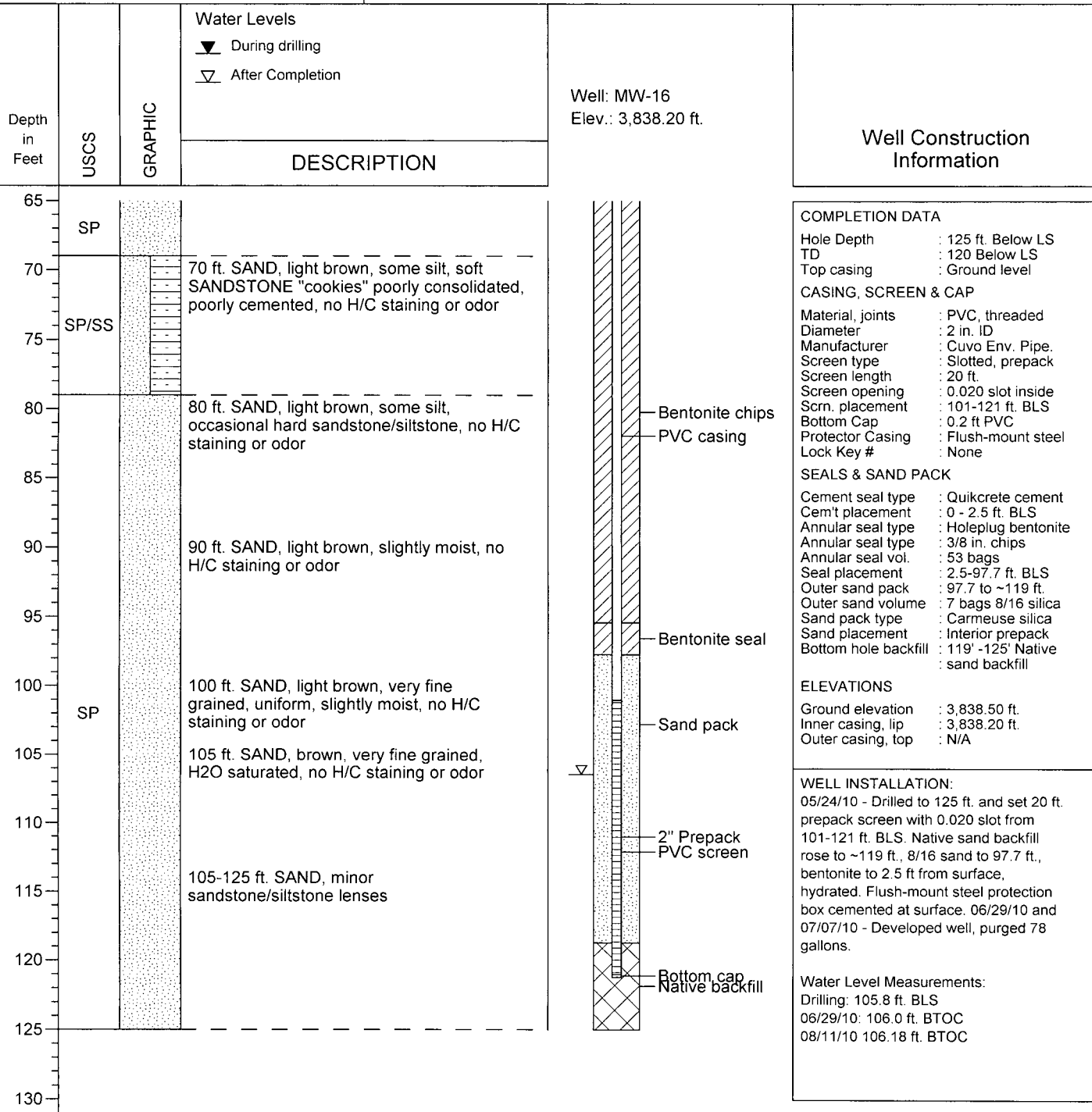
(Page 2 of 2)

Monitor Well 16  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 48.60", W103° 18' 17.79"

Date, Time Started : 05/24/10, 0930  
Date, Time Complete : 05/25/10, 0900  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



Notes:  
Drilled to 125 ft. and completed as MW-16  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

# LOG OF WELL MW-17

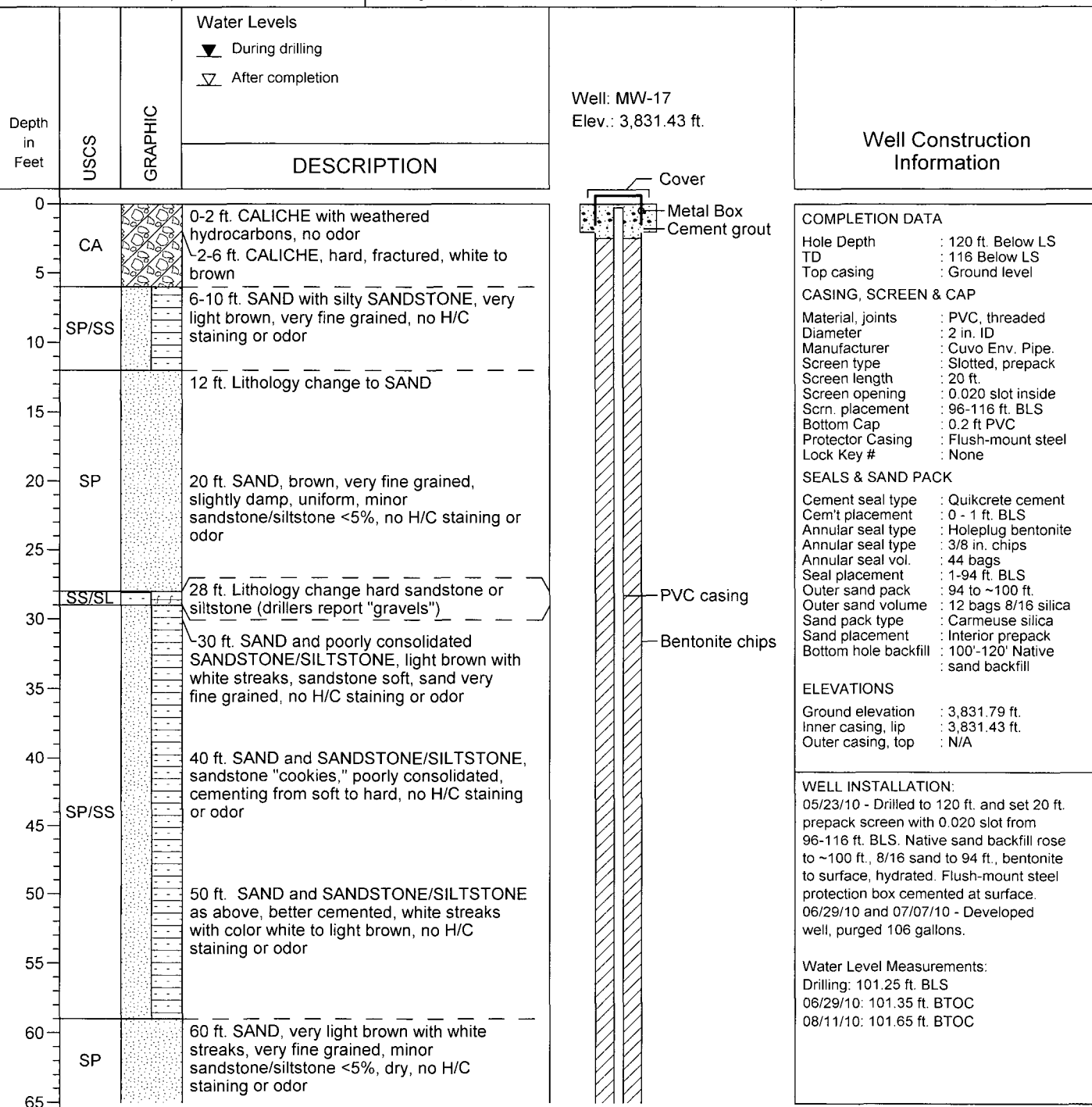
(Page 1 of 2)

Monitor Well 17  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 43.77", W103° 18' 13.68"

Date, Time Started : 05/23/10, 1230  
Date, Time Complete : 05/23/10, 1700  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**Notes:**

Drilled to 120 ft. and completed as MW-17  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon  
Low-level BTEX 0-2 ft. is toluene, no benzene detected.





**Safety & Environmental  
Solutions, Inc.**

**LOG OF WELL MW-17**

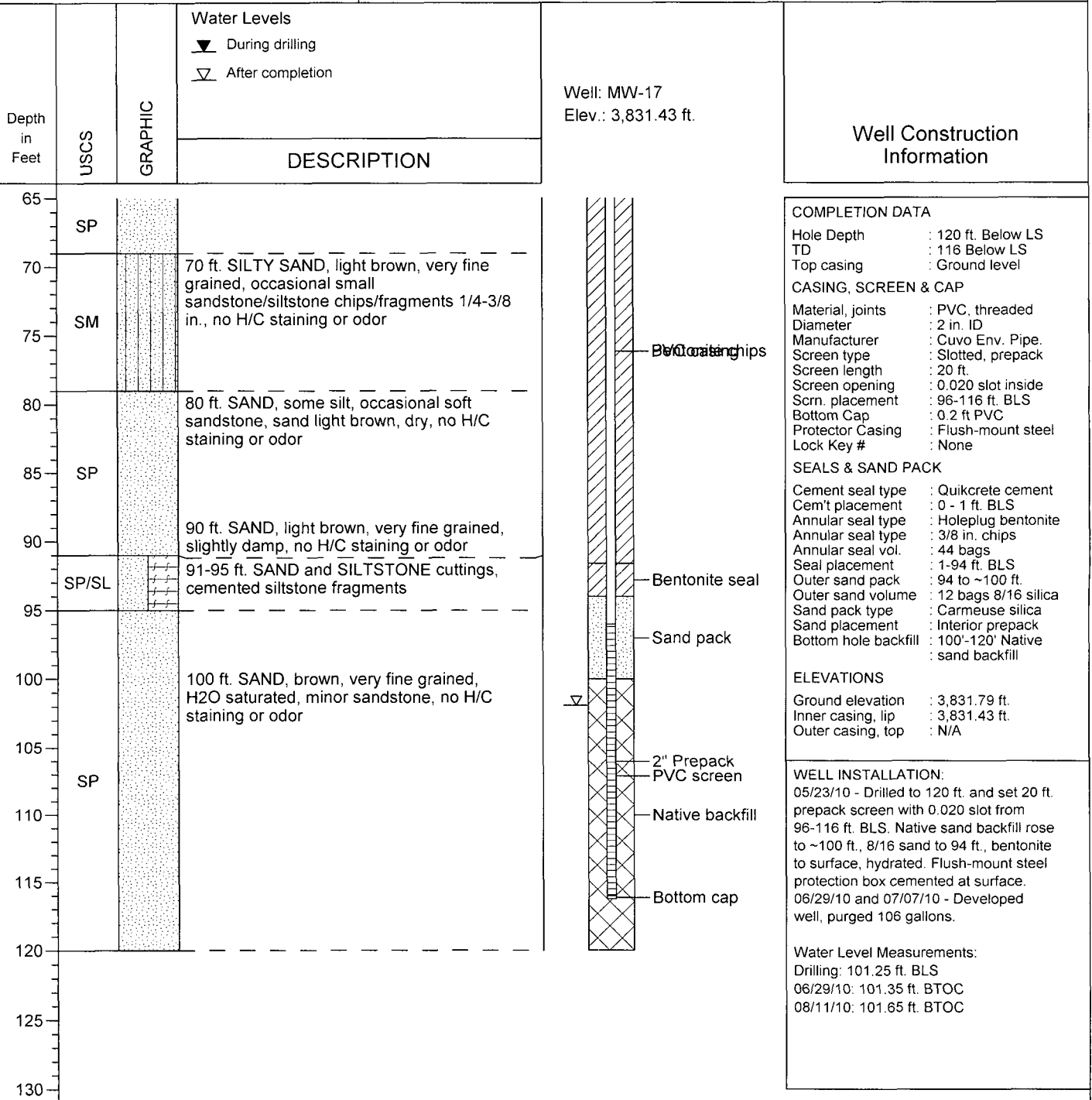
(Page 2 of 2)

Monitor Well 17  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 43.77", W103° 18' 13.68"

Date, Time Started : 05/23/10, 1230  
Date, Time Complete : 05/23/10, 1700  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**Notes:**

Drilled to 120 ft. and completed as MW-17  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon  
Low-level BTEX 0-2 ft. is toluene, no benzene detected.



(Page 1 of 2)

Final Drilling Equip : CME-85 HSA  
Completed By : WDC Drilling and Wells  
Sampling Method : See notes  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

Lea County, New Mexico  
N32° 52' 39.52", W103° 18' 05.09"

| Depth<br>in<br>Feet | USCS  | GRAPHIC | Water Levels                                                                                                                                      |                    | Well: MW-18<br>Elev.: 3,825.05 | Well Construction<br>Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|-------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |       |         | ▼ During drilling                                                                                                                                 | ▽ After completion |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                     |       |         | DESCRIPTION                                                                                                                                       |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 0                   | TS    |         | 0-1 Topsoil, hydrocarbon stained.                                                                                                                 |                    |                                | <b>COMPLETION DATA</b><br>Hole Depth : 125 ft. Below LS<br>TD : 120 Below LS<br>Top casing : Ground level<br><b>CASING, SCREEN &amp; CAP</b><br>Material, joints : PVC, threaded<br>Diameter : 2 in. ID<br>Manufacturer : Cuvo Env. Pipe<br>Screen type : Slotted, prepack<br>Screen length : 20 ft.<br>Screen opening : 0.020 slot inside<br>Scrn. placement : 100-120 ft. BLS<br>Bottom Cap : 0.2 ft PVC<br>Protector Casing : Flush-mount steel<br>Lock Key # : None<br><b>SEALS &amp; SAND PACK</b><br>Cement seal type : Quikcrete cement<br>Cem't placement : 0 - 1 ft. BLS<br>Annular seal type : Holeplug bentonite<br>Annular seal type : 3/8 in. chips<br>Annular seal vol. : 51 bags<br>Seal placement : 1-98 ft. BLS<br>Outer sand pack : 98 to ~117.5 ft.<br>Outer sand volume : 39 bags 8/16 silica<br>Sand pack type : Carmeuse silica<br>Sand placement : Interior prepack<br>Bottom hole backfill : 117.5'-125' Native sand backfill<br><b>ELEVATIONS</b><br>Ground elevation : 3,825.52 ft.<br>Inner casing, lip : 3,825.05 ft.<br>Outer casing, top : N/A<br><b>WELL INSTALLATION:</b><br>See narrative below for drilling scenario<br>05/18/10 - Drilled to 125 ft. and set 20 ft. prepack screen with 0.020 slot from 100-120 ft. BLS. Native sand backfill rose to ~117.5 ft., 8/16 sand to 98 ft., bentonite to surface, hydrated.<br>Flush-mount steel protection box cemented at surface. 06/29/10 - Developed well, purged 85 gallons.<br><b>Water Level Measurements:</b><br>Drilling: ~105 ft. BLS<br>06/29/10: 102.7(?) ft. BTOC<br>08/11/10: 108.54 ft. BTOC |
| 5                   | CA    |         | 2-5 ft. CALICHE, hard drilling<br>5-10 ft. CALICHE, creme color, very hard.                                                                       |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 10                  | CA    |         | 10 ft. Cuttings, CALICHE with minor sand, very fine grained, caliche rock in tip.                                                                 |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 15                  | SP/CA |         | 11 ft. SAND-CALICHE mix, sand light brown, very fine grained                                                                                      |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 20                  | SP/SS |         | 15 ft. SAND and SANDSTONE, very fine grained                                                                                                      |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 25                  | SS    |         | 19-20 ft. SANDSTONE, light brown, very fine grained, well cemented, sample from cuttings.<br>24 ft. SANDSTONE, hard                               |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 30                  | SS    |         | 24.5 ft. SAND, light brown, very fine grained, dry, no H/C staining or odor<br>25 ft. SANDSTONE, hard<br>27-28 ft. SANDSTONE, very hard           |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 35                  | SS    |         | 30-40 ft. SANDSTONE and SAND, sandstone poorly cemented, very friable, sand light brown, very fine grained, uniform, dry, no H/C staining or odor |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 40                  | SS/SP |         | 40-50 ft. SANDSTONE, very friable, poorly cemented, well consolidated, sand light brown, very fine grained, dry, no H/C staining or odor          |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 45                  | SS/SP |         | 50-60 ft. Hard drilling at 53 ft, sandstone jammed in tip, soft from 54-60 (likely sand).                                                         |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 50                  | SS/SP |         |                                                                                                                                                   |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 55                  | SS    |         | 60-70 ft. SANDSTONE, very friable, poorly cemented, well consolidated.                                                                            |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 60                  | SS    |         |                                                                                                                                                   |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 65                  | SS    |         |                                                                                                                                                   |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Notes:

Initial drilling 5/10 to 5/14 by Eco/Enviro Drilling, Lovington using GEFCO SD-200 air rig with 10 ft. core barrel. Stuck at 90 ft. Used air with foam, stuck at 93 ft. Rigged up with mud, lost circulation 124-129 ft. Well redrilled to 125 ft. and completed by WDC on 5/18. Sample at 90 feet from cuttings with possible cross-contamination from air compressor oil. Low level BTEX are ethylbenzene and xylenes, no benzene detected. H/C - hydrocarbon

Z:\Company Files\Navajo\2000 cleanups\NAV-00-019 Navajo Lea Refinery\2009\Boring-Well Logs\Well completion logs\MW-18 well log.log



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**LOG OF WELL MW-18**

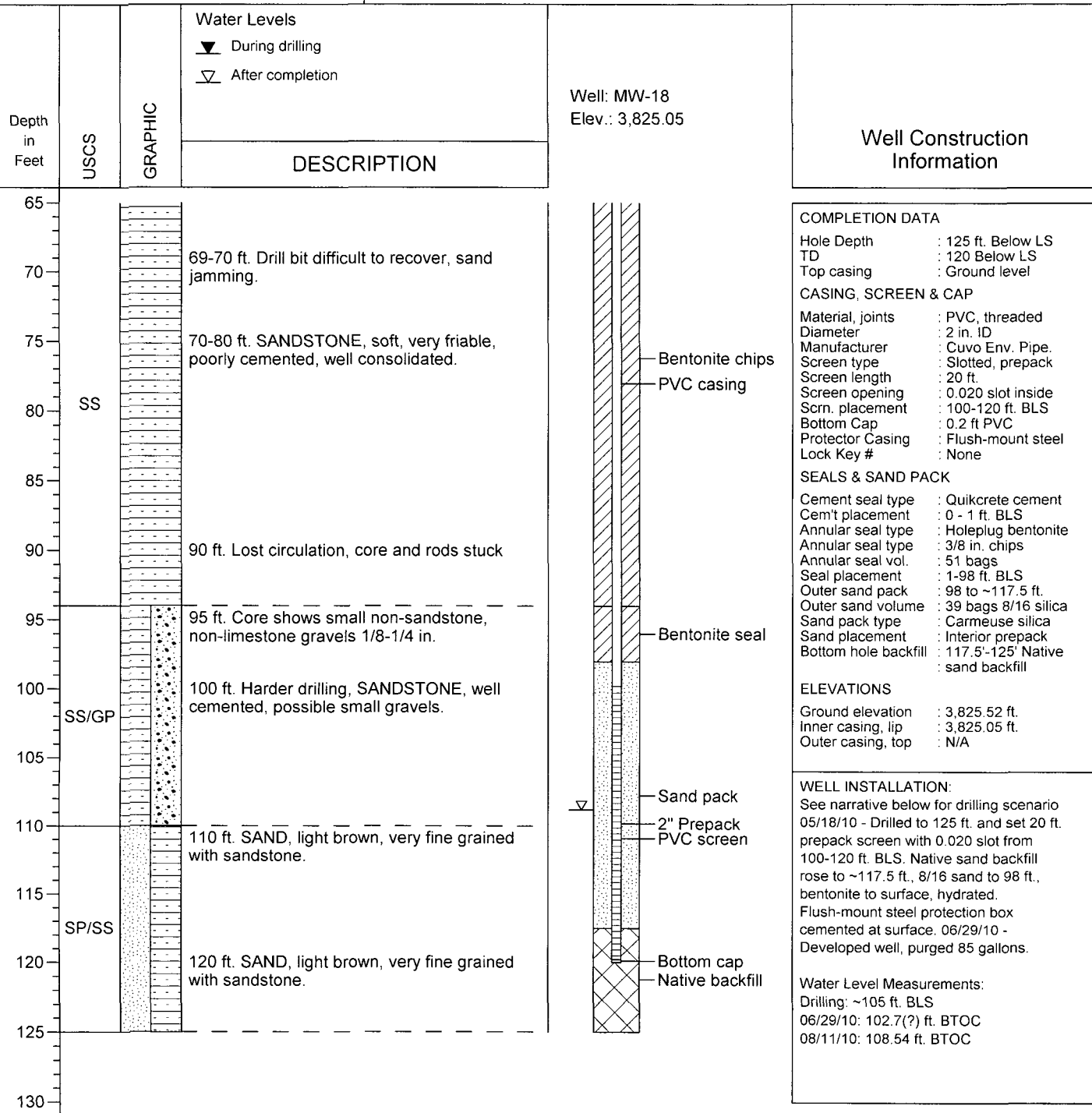
(Page 2 of 2)

Monitor Well 18  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 39.52", W103° 18' 05.09"

Date, Time Started : 05/10/10, 0930  
Date, Time Complete : 05/18/10, 1730  
Hole Diameter : 8 1/4 in.  
Drilling Method : See notes  
Initial Drilling Equip. : Air Rotary

Final Drilling Equip : CME-85 HSA  
Completed By : WDC Drilling and Wells  
Sampling Method : See notes  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**Notes:**

Initial drilling 5/10 to 5/14 by Eco/Enviro Drilling, Lovington using GEFCO SD-200 air rig with 10 ft. core barrel. Stuck at 90 ft. Used air with foam, stuck at 93 ft. Rigged up with mud, lost circulation 124-129 ft. Well redrilled to 125 ft. and completed by WDC on 5/18. Sample at 90 feet from cuttings with possible cross-contamination from air compressor oil. Low level BTEX are ethylbenzene and xylenes, no benzene detected. H/C - hydrocarbon



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# LOG OF WELL MW-19

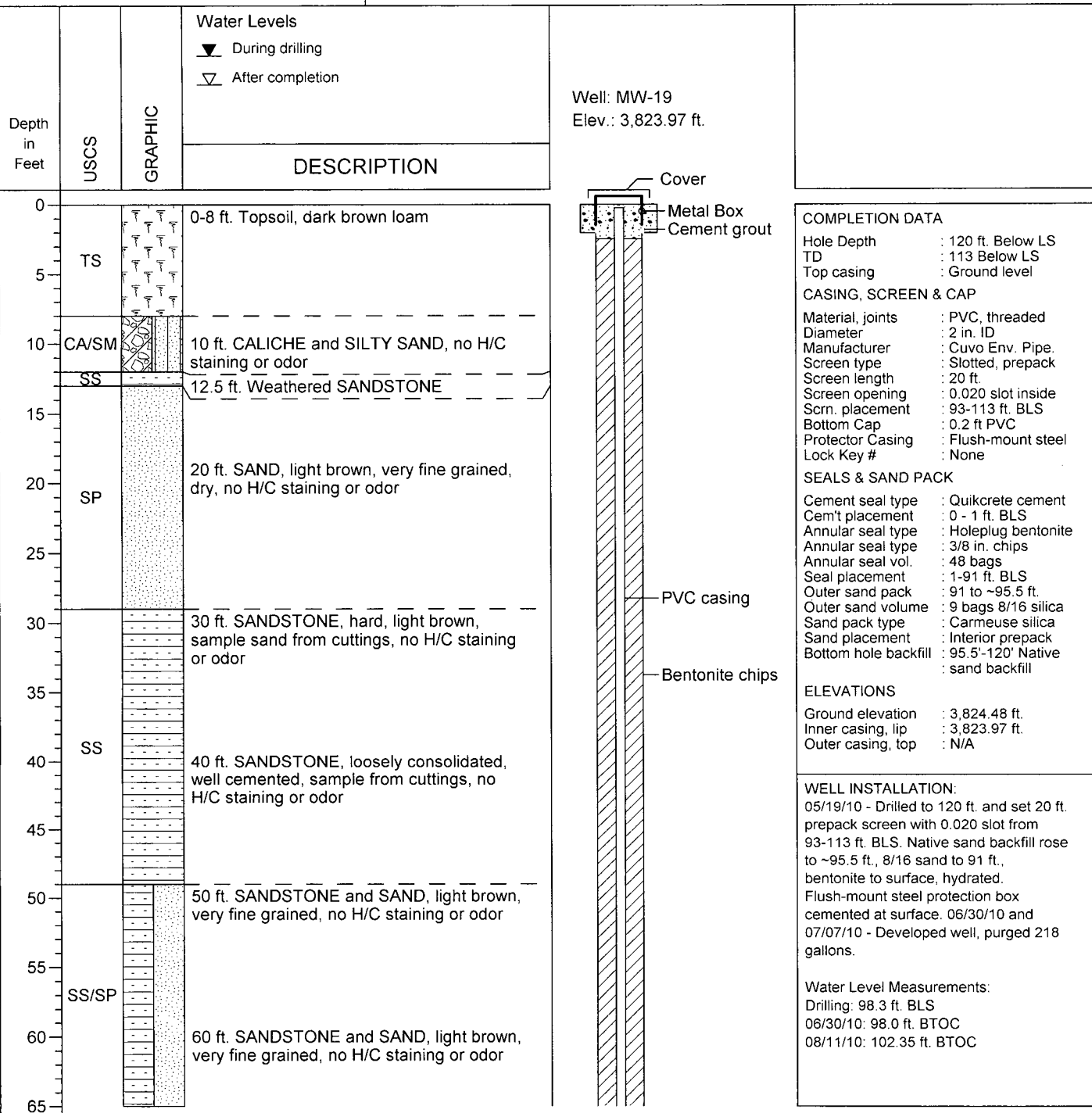
(Page 1 of 2)

Monitor Well 19  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 36.50", W103° 18' 02.25"

Date, Time Started : 05/19/10, 0800  
Date, Time Complete : 05/19/10, 1500  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**COMPLETION DATA**

Hole Depth : 120 ft. Below LS  
TD : 113 Below LS  
Top casing : Ground level

**CASING, SCREEN & CAP**

Material, joints : PVC, threaded  
Diameter : 2 in. ID  
Manufacturer : Cuvo Env. Pipe  
Screen type : Slotted, prepack  
Screen length : 20 ft.  
Screen opening : 0.020 slot inside  
Scrn. placement : 93-113 ft. BLS  
Bottom Cap : 0.2 ft PVC  
Protector Casing : Flush-mount steel  
Lock Key # : None

**SEALS & SAND PACK**

Cement seal type : Quikcrete cement  
Cem't placement : 0 - 1 ft. BLS  
Annular seal type : Holeplug bentonite  
Annular seal type : 3/8 in. chips  
Annular seal vol. : 48 bags  
Seal placement : 1-91 ft. BLS  
Outer sand pack : 91 to ~95.5 ft.  
Outer sand volume : 9 bags 8/16 silica  
Sand pack type : Carmeuse silica  
Sand placement : Interior prepack  
Bottom hole backfill : 95.5'-120' Native sand backfill

**ELEVATIONS**

Ground elevation : 3,824.48 ft.  
Inner casing, lip : 3,823.97 ft.  
Outer casing, top : N/A

**WELL INSTALLATION:**

05/19/10 - Drilled to 120 ft. and set 20 ft. prepack screen with 0.020 slot from 93-113 ft. BLS. Native sand backfill rose to ~95.5 ft., 8/16 sand to 91 ft., bentonite to surface, hydrated. Flush-mount steel protection box cemented at surface. 06/30/10 and 07/07/10 - Developed well, purged 218 gallons.

**Water Level Measurements:**

Drilling: 98.3 ft. BLS  
06/30/10: 98.0 ft. BTOC  
08/11/10: 102.35 ft. BTOC

Notes:  
Drilled to 120 ft. and completed as MW-19  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



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**LOG OF WELL MW-19**

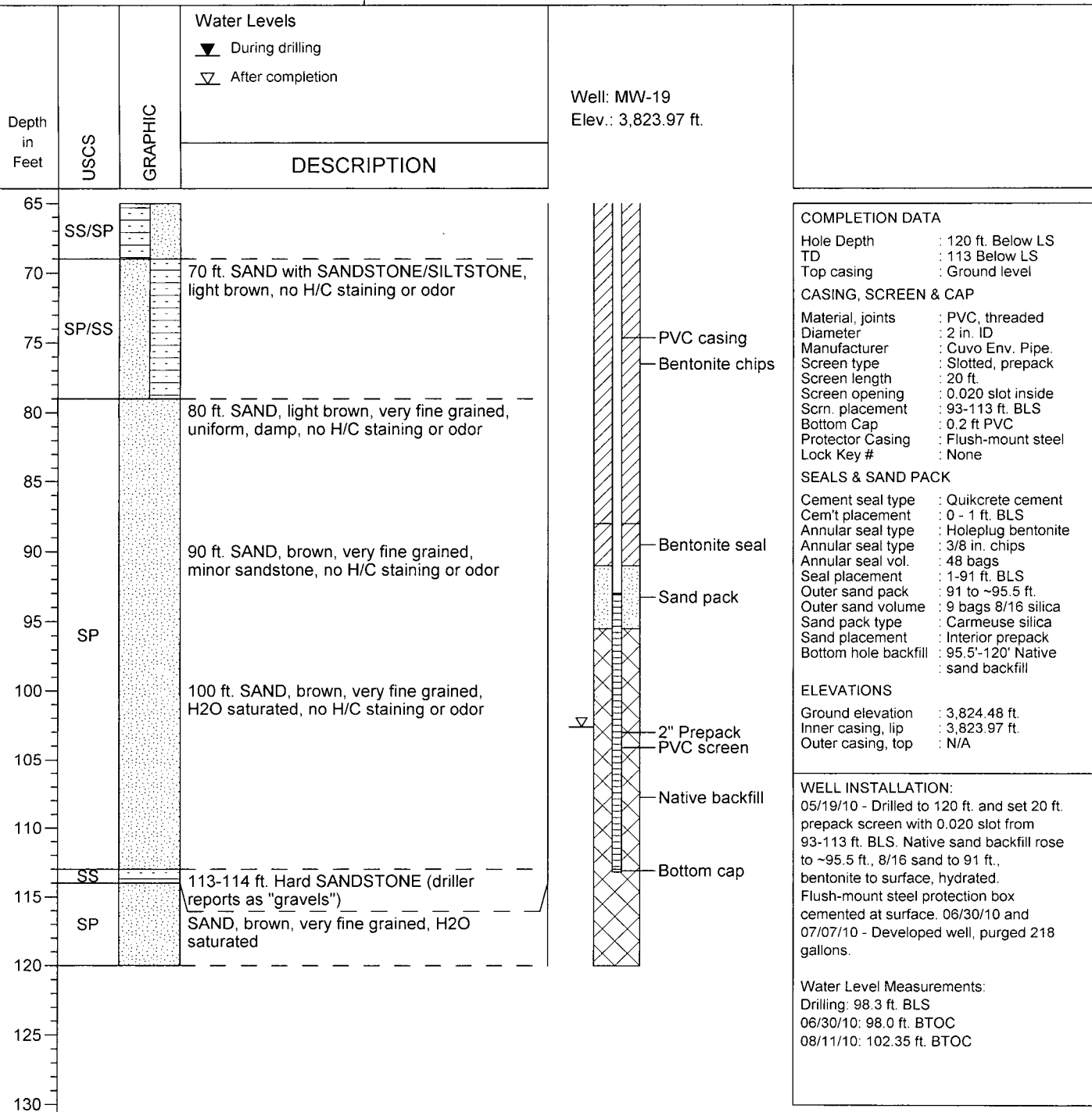
(Page 2 of 2)

Monitor Well 19  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 36.50", W103° 18' 02.25"

Date, Time Started : 05/19/10, 0800  
Date, Time Complete : 05/19/10, 1500  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**Notes:**

Drilled to 120 ft. and completed as MW-19  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



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# LOG OF WELL MW-20

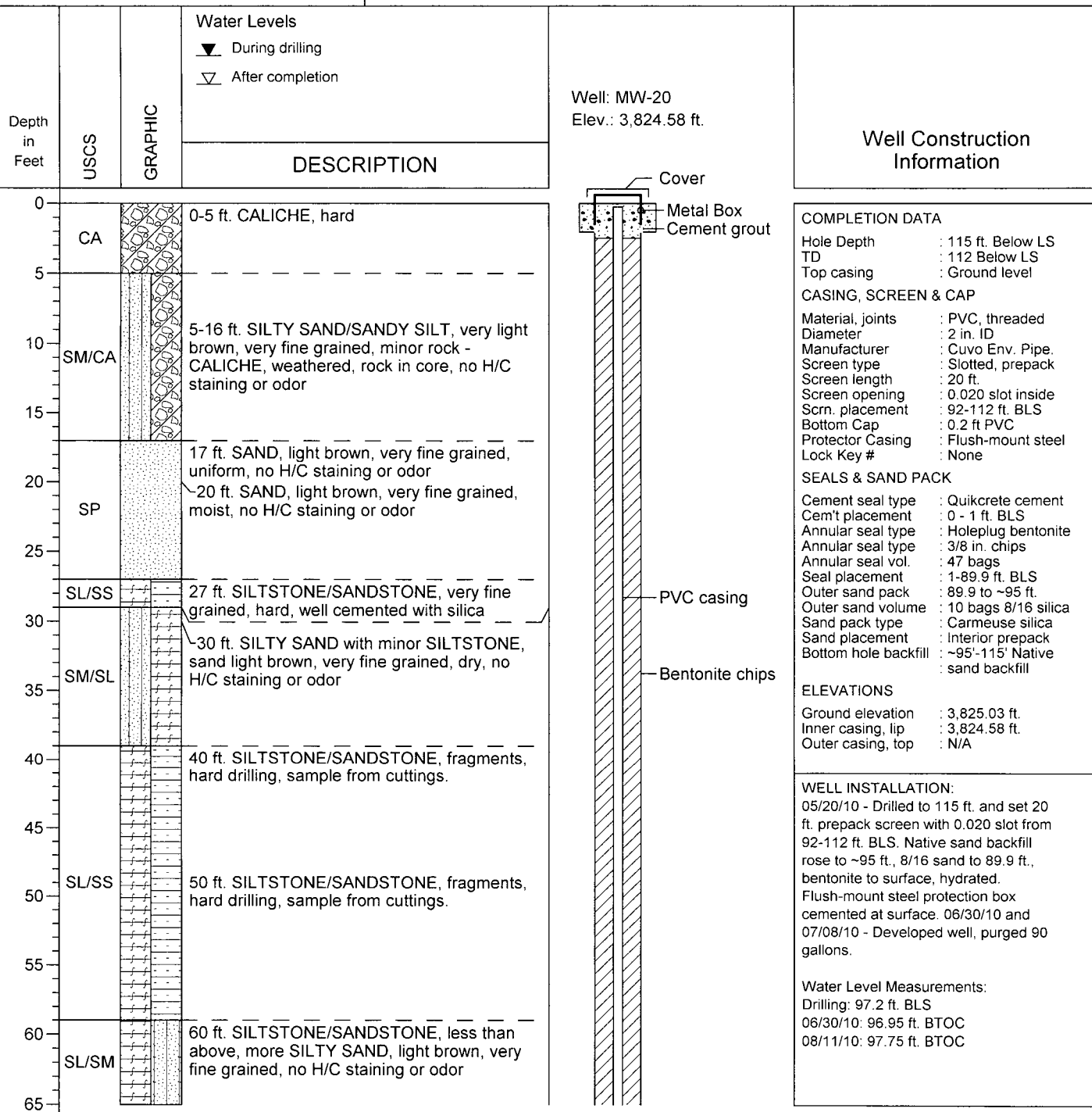
(Page 1 of 2)

Monitor Well 20  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 31.47", W103° 18' 02.32"

Date, Time Started : 05/19/10, 0800  
Date, Time Complete : 05/19/10, 1500  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**Notes:**

Drilled to 115 ft. and completed as MW-20  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



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## LOG OF WELL MW-20

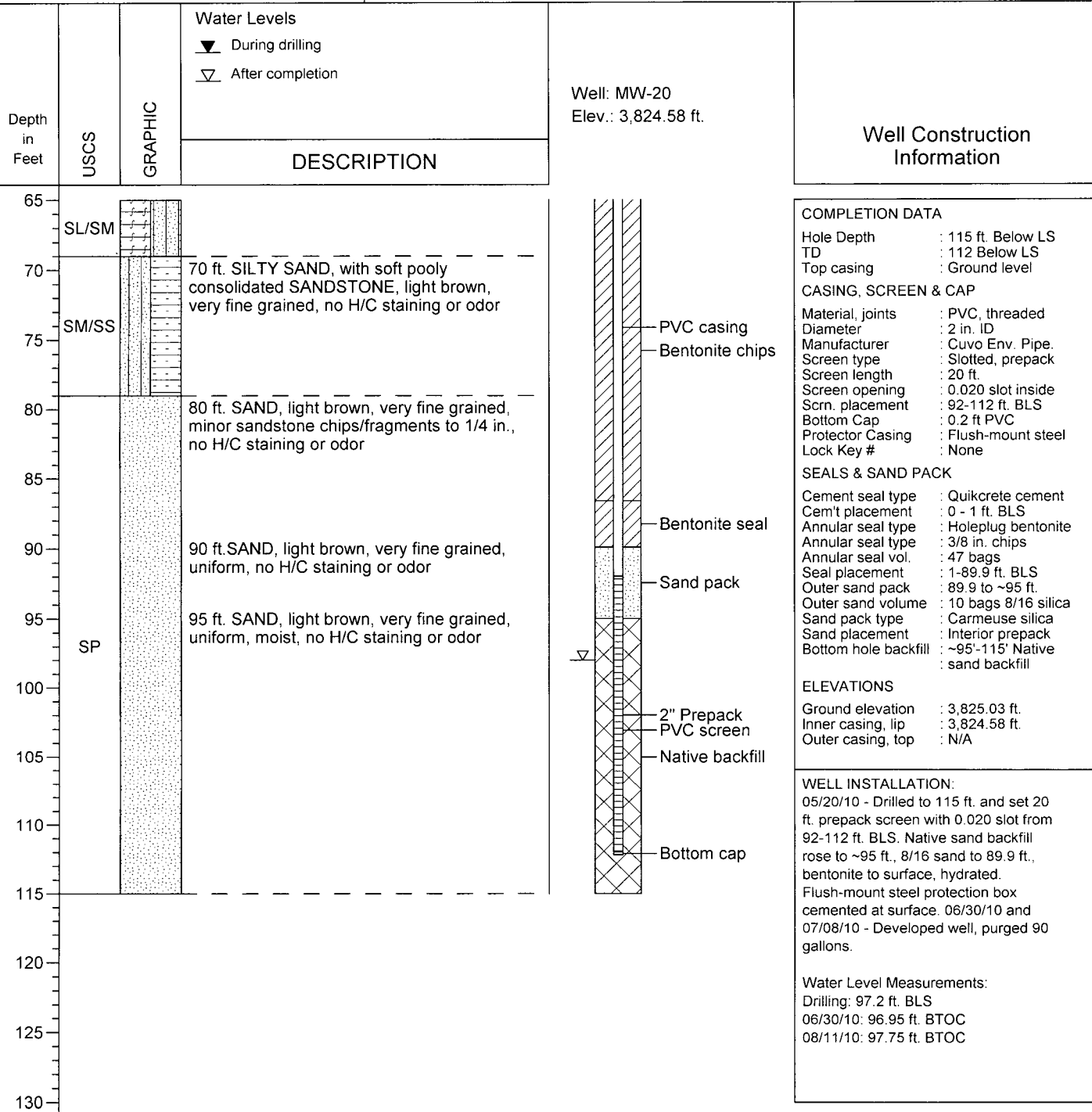
(Page 2 of 2)

Monitor Well 20  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 31.47", W103° 18' 02.32"

Date, Time Started : 05/19/10, 0800  
Date, Time Complete : 05/19/10, 1500  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**Notes:**

Drilled to 115 ft. and completed as MW-20  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



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**LOG OF WELL MW-21**

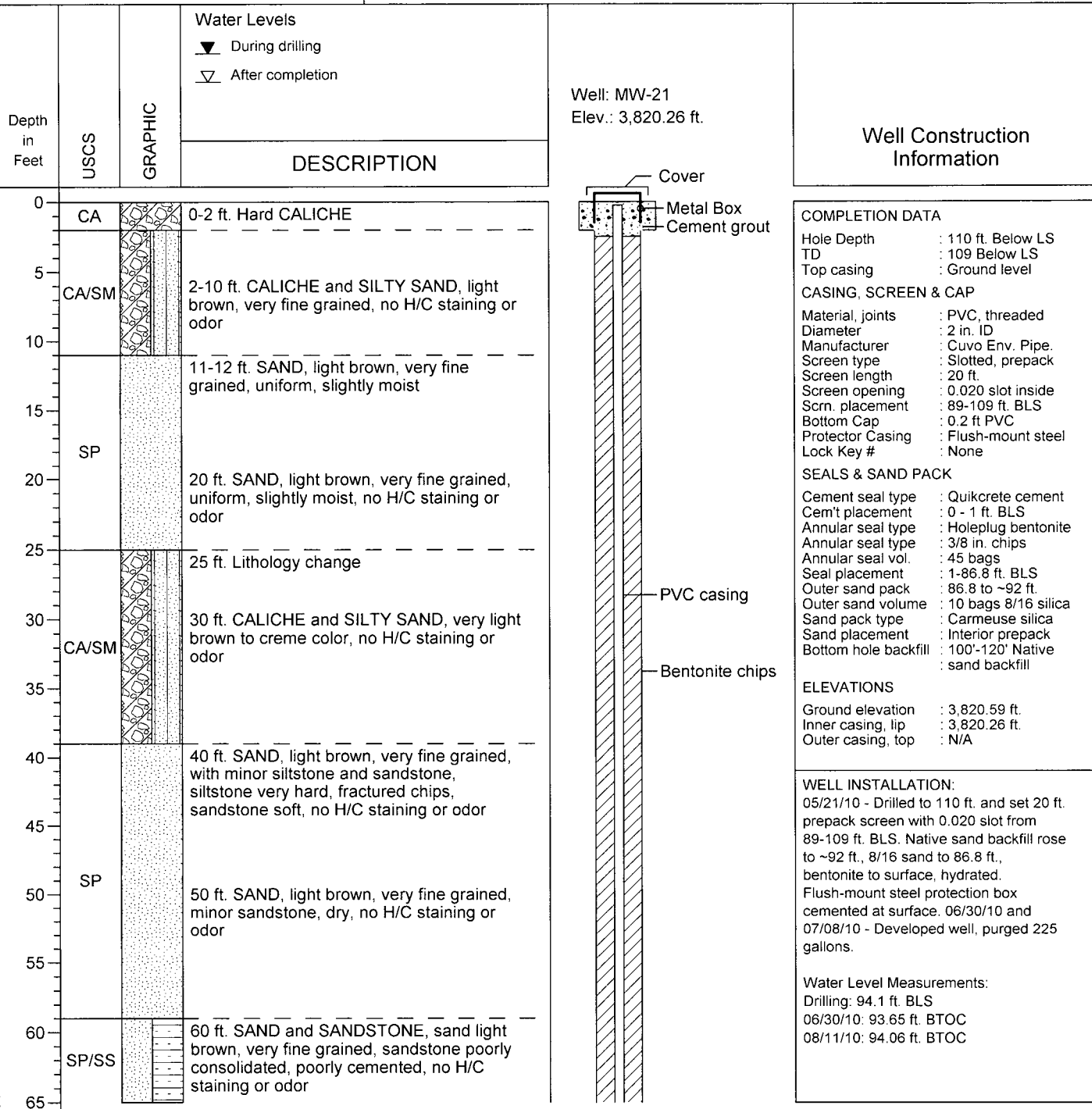
(Page 1 of 2)

Monitor Well 21  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

Lea County, New Mexico  
N32° 52' 32.18", W103° 17' 54.98"

Date, Time Started : 05/21/10, 0730  
Date, Time Complete : 05/21/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**COMPLETION DATA**

Hole Depth : 110 ft. Below LS  
TD : 109 Below LS  
Top casing : Ground level

**CASING, SCREEN & CAP**

Material, joints : PVC, threaded  
Diameter : 2 in. ID  
Manufacturer : Cuvo Env. Pipe.  
Screen type : Slotted, prepack  
Screen length : 20 ft.  
Screen opening : 0.020 slot inside  
Scrn. placement : 89-109 ft. BLS  
Bottom Cap : 0.2 ft PVC  
Protector Casing : Flush-mount steel  
Lock Key # : None

**SEALS & SAND PACK**

Cement seal type : Quikcrete cement  
Cem't placement : 0 - 1 ft. BLS  
Annular seal type : Holeplug bentonite  
Annular seal type : 3/8 in. chips  
Annular seal vol. : 45 bags  
Seal placement : 1-86.8 ft. BLS  
Outer sand pack : 86.8 to ~92 ft.  
Outer sand volume : 10 bags 8/16 silica  
Sand pack type : Carmeuse silica  
Sand placement : Interior prepack  
Bottom hole backfill : 100'-120' Native sand backfill

**ELEVATIONS**

Ground elevation : 3,820.59 ft.  
Inner casing, tip : 3,820.26 ft.  
Outer casing, top : N/A

**WELL INSTALLATION:**

05/21/10 - Drilled to 110 ft. and set 20 ft. prepack screen with 0.020 slot from 89-109 ft. BLS. Native sand backfill rose to ~92 ft., 8/16 sand to 86.8 ft., bentonite to surface, hydrated. Flush-mount steel protection box cemented at surface. 06/30/10 and 07/08/10 - Developed well, purged 225 gallons.

**Water Level Measurements:**

Drilling: 94.1 ft. BLS  
06/30/10: 93.65 ft. BTOC  
08/11/10: 94.06 ft. BTOC

**Notes:**

Drilled to 110 ft. and completed as MW-21  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon





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**LOG OF WELL MW-21**

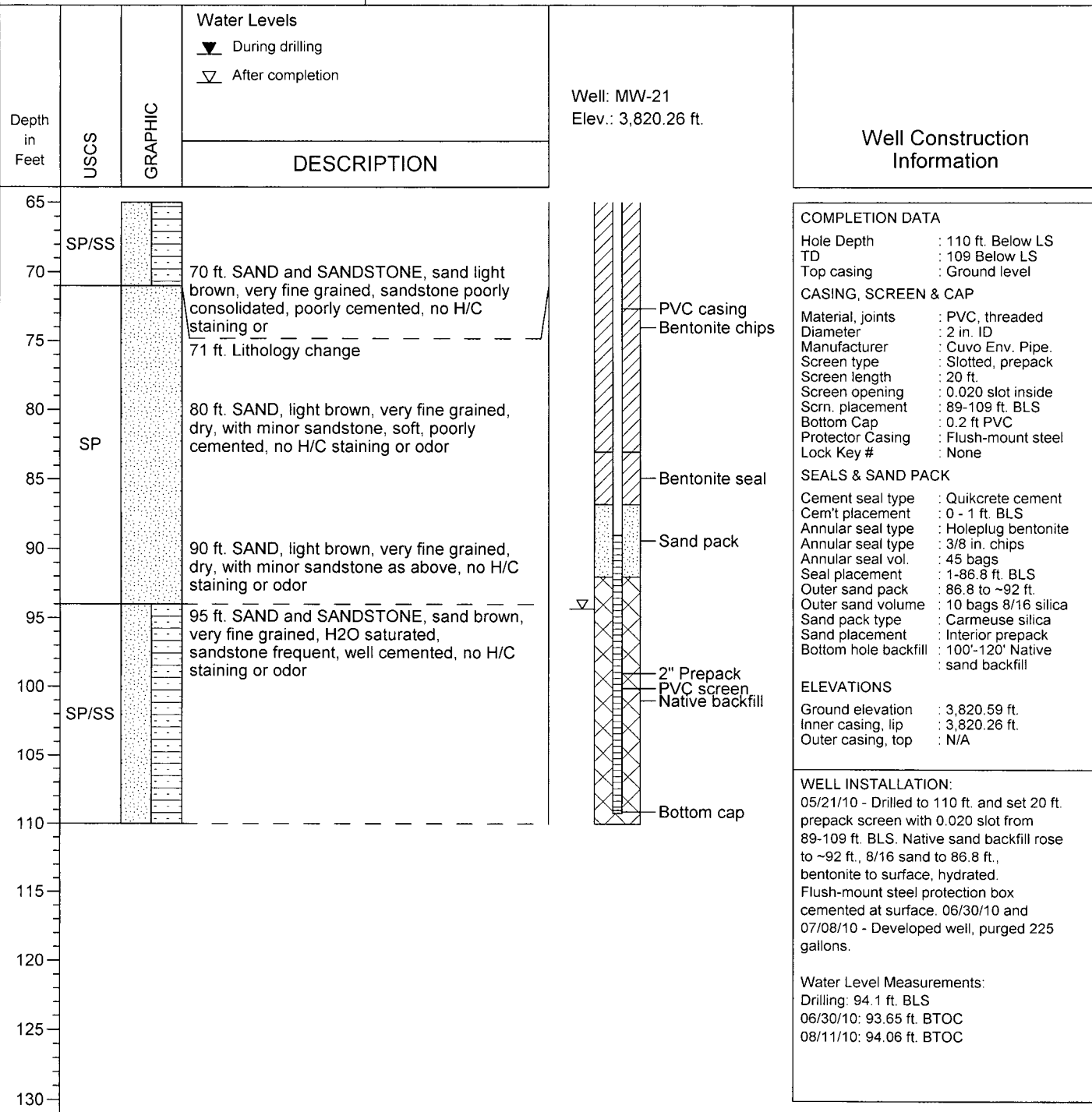
(Page 2 of 2)

Monitor Well 21  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

Lea County, New Mexico  
N32° 52' 32.18", W103° 17' 54.98"

Date, Time Started : 05/21/10, 0730  
Date, Time Complete : 05/21/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



Notes:  
Drilled to 110 ft. and completed as MW-21  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



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**LOG OF WELL MW-22**

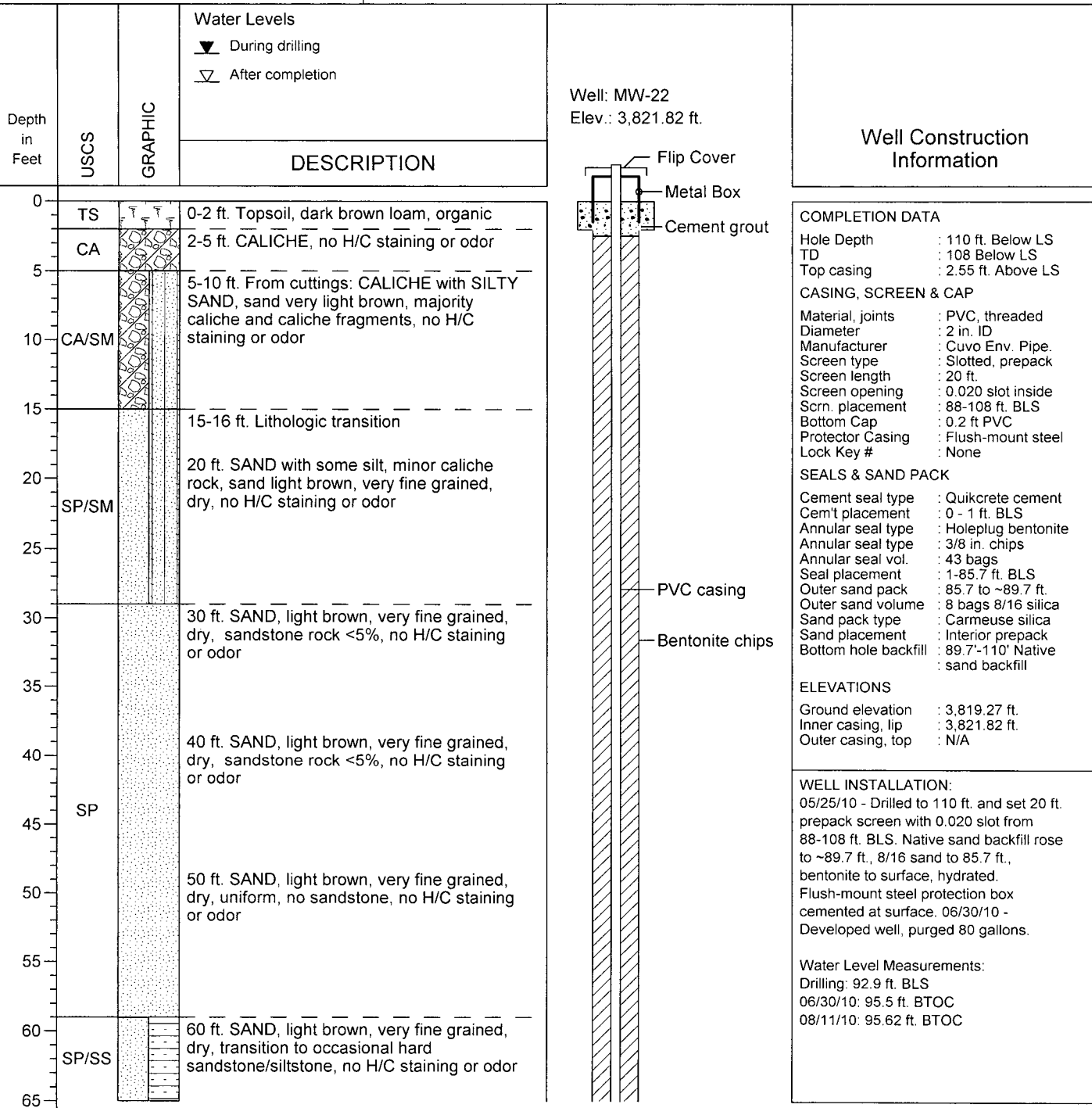
(Page 1 of 2)

Monitor Well 22  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

Lea County, New Mexico  
N32° 52' 35.25", W103° 17' 49.24"

Date, Time Started : 05/26/10, 0750  
Date, Time Complete : 05/26/10, 1400  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**Notes:**

Drilled to 110 ft. and completed as MW-22

Sampled every 10 ft. to saturation.

H/C - Hydrocarbon



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# LOG OF WELL MW-22

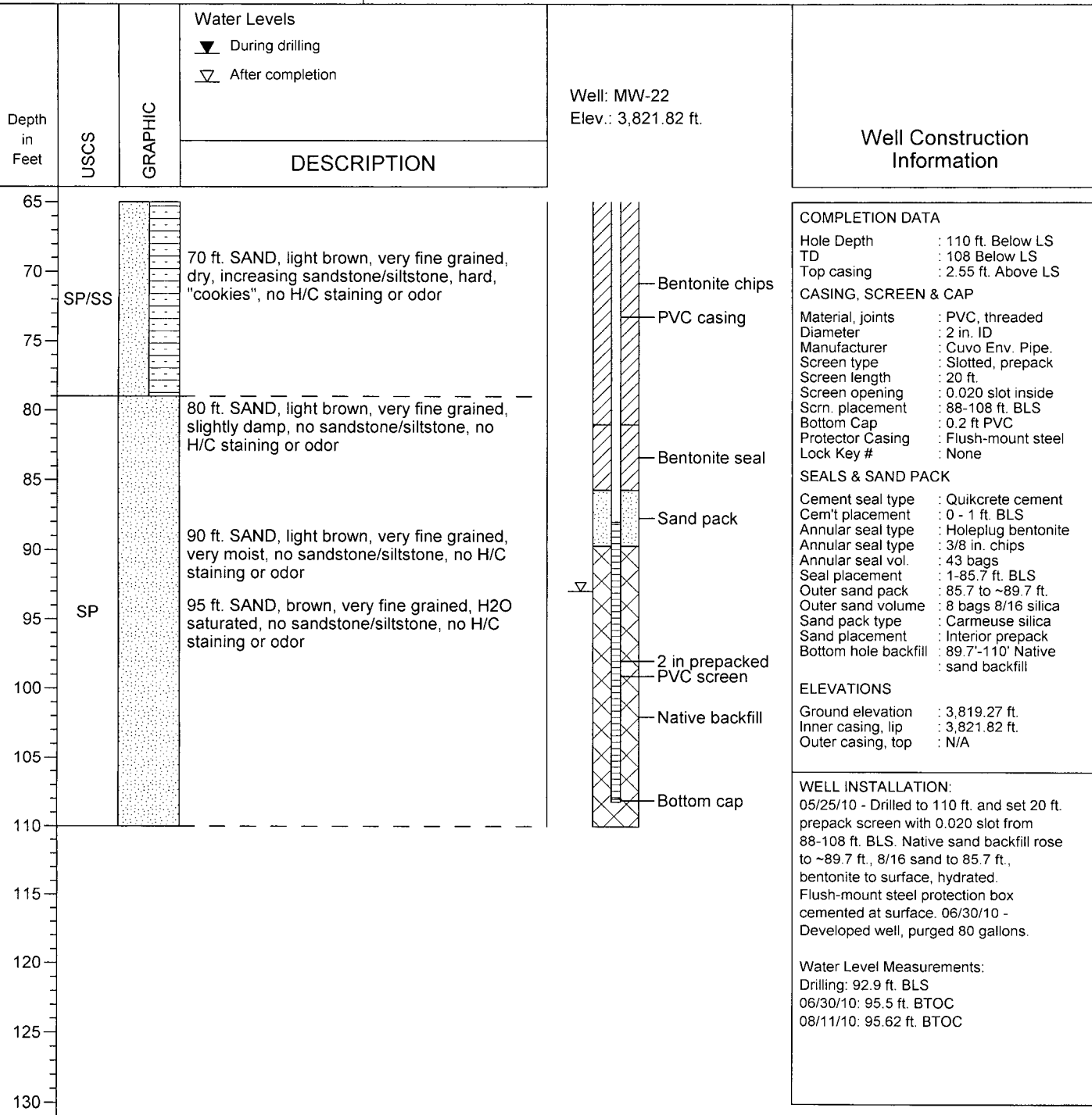
(Page 2 of 2)

Monitor Well 22  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

Lea County, New Mexico  
N32° 52' 35.25", W103° 17' 49.24"

Date, Time Started : 05/26/10, 0750  
Date, Time Complete : 05/26/10, 1400  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**Notes:**

Drilled to 110 ft. and completed as MW-22  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



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## LOG OF WELL MW-23

(Page 1 of 2)

Monitor Well 23  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

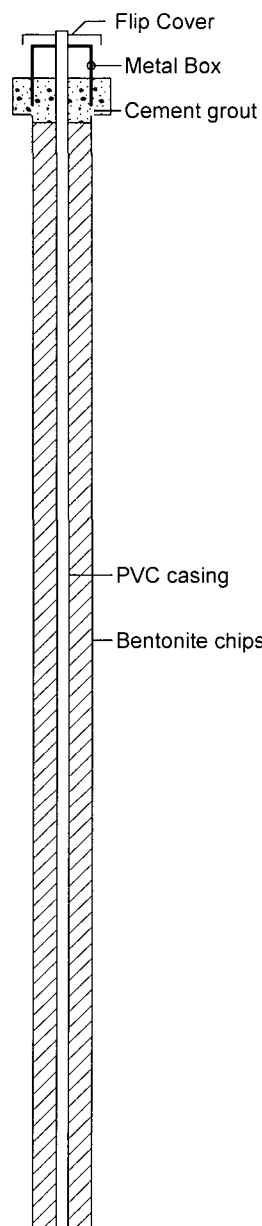
Lea County, New Mexico  
N32° 52' 38.06", W103° 17' 56.04"

Date, Time Started : 05/26/10, 0750  
Date, Time Complete : 05/26/10, 1400  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | USCS  | GRAPHIC | Sample Type                                                                                                                                                                                    |
|---------------------|-------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |       |         | DESCRIPTION                                                                                                                                                                                    |
|                     |       |         | SS Split Spoon (18" or 24")<br>CB Core Barrel (2.5' or 5')<br>CT Auger Cuttings<br>NR No recovery                                                                                              |
| 0                   | CA    |         | 0-4 ft. Hard CALICHE                                                                                                                                                                           |
| 5                   | CA/SM |         |                                                                                                                                                                                                |
| 10                  |       |         | CALICHE and SILTY SAND (4-12 ft.), no H/C staining or odor                                                                                                                                     |
| 15                  |       |         |                                                                                                                                                                                                |
| 20                  | SP    |         | 20 ft. SAND, reddish-brown, very fine grained, uniform, damp, no H/C staining or odor                                                                                                          |
| 25                  |       |         |                                                                                                                                                                                                |
| 30                  |       |         | 27 ft. From driller: "gravels," possible hard sandstone/siltstone lens.                                                                                                                        |
| 35                  | SS/SL |         | 30 ft. SANDSTONE and SILTSTONE with SAND, sandstone soft, siltstone very hard, sand brown to light brown, occasional white streaks, very fine grained, slightly moist, no H/C staining or odor |
| 40                  |       |         |                                                                                                                                                                                                |
| 45                  | SM/SS |         | 40 ft. SILTY SAND with intermittent SANDSTONE and SILTSTONE, sand light brown, very fine grained, no H/C staining or odor                                                                      |
| 50                  |       |         |                                                                                                                                                                                                |
| 55                  | SP/SS |         | 50 ft. SAND with occasional soft SANDSTONE, sand light brown, very fine grained, dry, sandstone poorly cemented (friable with fingers), no H/C staining or odor                                |
| 60                  |       |         |                                                                                                                                                                                                |
| 65                  | SM/SL |         | 60 ft. SILTY SAND with hard SILTSTONE lenses, sand very light brown, very fine grained, no H/C staining or odor                                                                                |

Well: MW-23  
Elev.: 3,825.58 ft.



### Well Construction Information

#### COMPLETION DATA

Hole Depth : 115 ft. Below LS  
TD : 112 Below LS  
Top casing : 2.67 ft. Above LS

#### CASING, SCREEN & CAP

Material, joints : PVC, threaded  
Diameter : 2 in. ID  
Manufacturer : Cuvo Env. Pipe.  
Screen type : Slotted, prepack  
Screen length : 20 ft.  
Screen opening : 0.020 slot inside  
Scrn. placement : 92-112 ft. BLS  
Bottom Cap : 0.2 ft PVC  
Protector Casing : Flush-mount steel  
Lock Key # : None

#### SEALS & SAND PACK

Cement seal type : Quikcrete cement  
Cem't placement : 0 - 1 ft. BLS  
Annular seal type : Holeplug bentonite  
Annular seal type : 3/8 in. chips  
Annular seal vol. : 46 bags  
Seal placement : 1-89.8 ft. BLS  
Outer sand pack : 89.8 to ~93.8 ft.  
Outer sand volume : 8 bags 8/16 silica  
Sand pack type : Carmeuse silica  
Sand placement : Interior prepack  
Bottom hole backfill : ~93.8'-115' Native sand backfill

#### ELEVATIONS

Ground elevation : 3,822.91 ft.  
Inner casing, lip : 3,825.58 ft.  
Outer casing, top : N/A

#### WELL INSTALLATION:

05/26/10 - Drilled to 115 ft. and set 20 ft. prepack screen with 0.020 slot from 92-112 ft. BLS. Native sand backfill rose to ~93.8 ft., 8/16 sand to 89.8 ft., bentonite to surface, hydrated.  
Flush-mount steel protection box cemented at surface. 07/01/10 -  
Developed well, purged 90 gallons.

#### Water Level Measurements:

Drilling: 96.9 ft. BLS  
06/30/10: 99.95 ft. BTOC  
08/11/10: 100.49 ft. BTOC

#### Notes:

Drilled to 115 ft. and completed as MW-23  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

**LOG OF WELL MW-23**

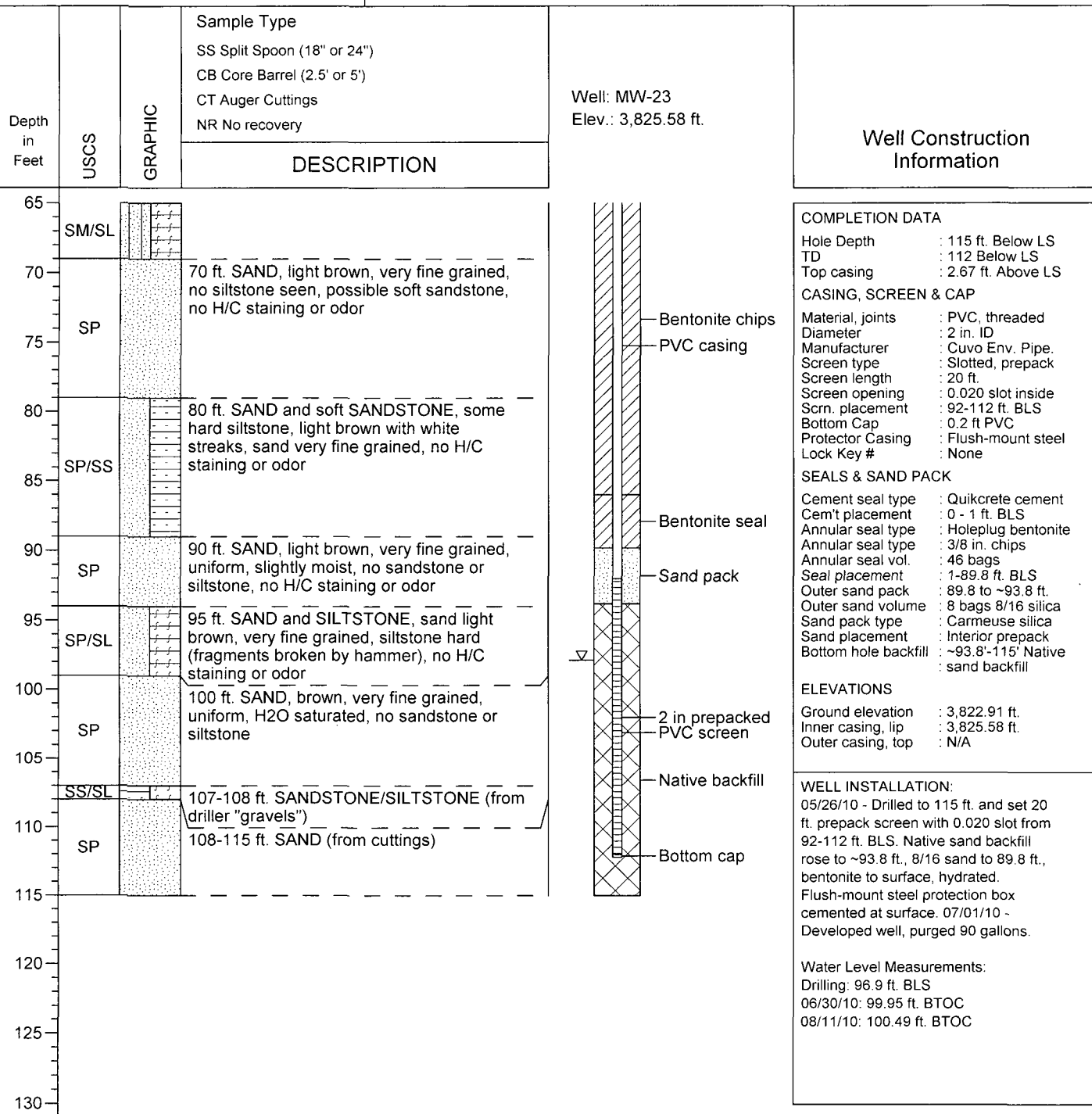
(Page 2 of 2)

Monitor Well 23  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

Lea County, New Mexico  
N32° 52' 38.06", W103° 17' 56.04"

Date, Time Started : 05/26/10, 0750  
Date, Time Complete : 05/26/10, 1400  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



Notes:  
Drilled to 115 ft. and completed as MW-23  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



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**LOG OF WELL MW-24**

(Page 1 of 2)

Monitor Well 24  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

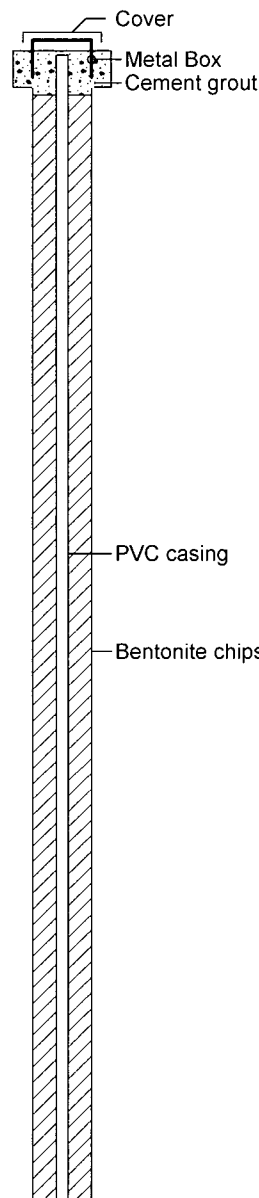
Lea County, New Mexico  
N32° 52' 43.51", W103° 17' 51.80"

Date, Time Started : 05/26/10, 1430  
Date, Time Complete : 05/27/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

| Depth<br>in<br>Feet | USCS  | GRAPHIC | Water Levels                                                                                                                          |
|---------------------|-------|---------|---------------------------------------------------------------------------------------------------------------------------------------|
|                     |       |         | DESCRIPTION                                                                                                                           |
|                     |       |         | ▼ During drilling<br>▽ After completion                                                                                               |
| 0                   | CA/SM |         | 0-5 ft. CALICHE rock with SILTY SAND, no H/C staining or odor                                                                         |
| 5                   | SM/CA |         | 5-10 ft. SILTY SAND and CALICHE, sand light brown, very fine grained, dry, no H/C staining or odor                                    |
| 10                  |       |         |                                                                                                                                       |
| 15                  | SM/SL |         | 10-20 ft. SILTY SAND with CALICHE and SILTSTONE, no H/C staining or odor                                                              |
| 20                  |       |         |                                                                                                                                       |
| 25                  | SM    |         | 20 ft. SILTY SAND, very light brown with white streaks, minor siltstone, dry, no H/C staining or odor                                 |
| 30                  |       |         |                                                                                                                                       |
| 35                  | SP    |         | 30 ft. SAND, light brown with white streaks, very fine grained, dry, uniform, no H/C staining or odor                                 |
| 40                  |       |         |                                                                                                                                       |
| 45                  | SM/SS |         | 40 ft. SILTY SAND with poorly consolidated sandstone/siltstone, dry, no H/C staining or odor                                          |
| 50                  |       |         |                                                                                                                                       |
| 55                  | SP/SS |         | 50 ft. SAND, light brown, very fine to fine grained, dry, with poorly consolidated sandstone/siltstone, no H/C staining or odor       |
| 60                  |       |         |                                                                                                                                       |
| 65                  | SP/SS |         | 60 ft. SAND, some silt, light brown, very fine to fine grained, with poorly consolidated sandstone/siltstone, no H/C staining or odor |

Well: MW-24  
Elev.: 3,830.50 ft.



**Well Construction  
Information**

**COMPLETION DATA**

Hole Depth : 125 ft. Below LS  
TD : 119.5 Below LS  
Top casing : Ground level

**CASING, SCREEN & CAP**

Material, joints : PVC, threaded  
Diameter : 2 in. ID  
Manufacturer : Cuvo Env. Pipe.  
Screen type : Slotted, prepack  
Screen length : 20 ft.  
Screen opening : 0.020 slot inside  
Scrn. placement : 99.5-119.5 ft. BLS  
Bottom Cap : 0.2 ft PVC  
Protector Casing : Flush-mount steel  
Lock Key # : None

**SEALS & SAND PACK**

Cement seal type : Quikcrete cement  
Cem't placement : 0 - 1 ft. BLS  
Annular seal type : Holeplug bentonite  
Annular seal type : 3/8 in. chips  
Annular seal vol. : 49 bags  
Seal placement : 1-97 ft. BLS  
Outer sand pack : 97 to ~102 ft.  
Outer sand volume : 9 bags 8/16 silica  
Sand pack type : Carmeuse silica  
Sand placement : Interior prepack  
Bottom hole backfill : 102'-120' Native sand backfill

**ELEVATIONS**

Ground elevation : 3,830.81 ft.  
Inner casing, lip : 3,830.50 ft.  
Outer casing, top : N/A

**WELL INSTALLATION:**

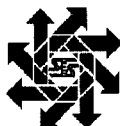
05/26-27/10 - Drilled to 125 ft. and set 20 ft. prepack screen with 0.020 slot from 99.5-119.5 ft. BLS. Native sand backfill rose to ~102 ft., 8/16 sand to 97 ft., bentonite to surface, hydrated. Flush-mount steel protection box cemented at surface. 07/01/10 and 07/09/10 - Developed well, purged 220 gallons.

**Water Level Measurements:**

Drilling 5/26: 104.9 ft. BLS  
Drilling 5/27: 104.6 ft. BLS  
07/01/10: 104.85 ft. BTOC  
08/11/10: 104.04 ft. BTOC

**Notes:**

Drilled to 125 ft. and completed as MW-24  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



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**LOG OF WELL MW-24**

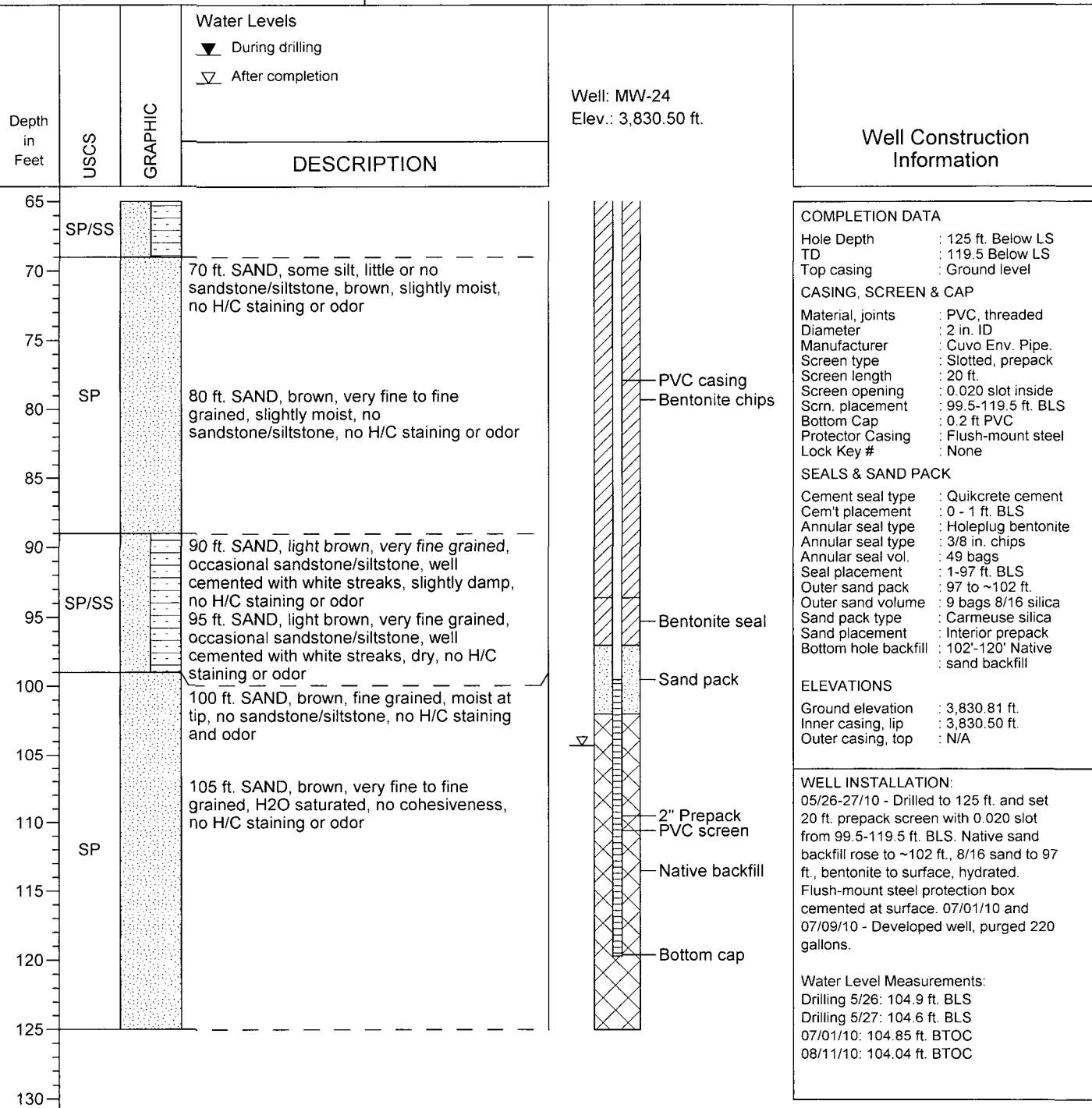
(Page 2 of 2)

Monitor Well 24  
Navajo Refining Company, Lea Refinery  
Section 31, T16S, R37E

Lea County, New Mexico  
N32° 52' 43.51", W103° 17' 51.80"

Date, Time Started : 05/26/10, 1430  
Date, Time Complete : 05/27/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**Notes:**

Drilled to 125 ft. and completed as MW-24  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



**Safety & Environmental  
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**LOG OF WELL MW-25**

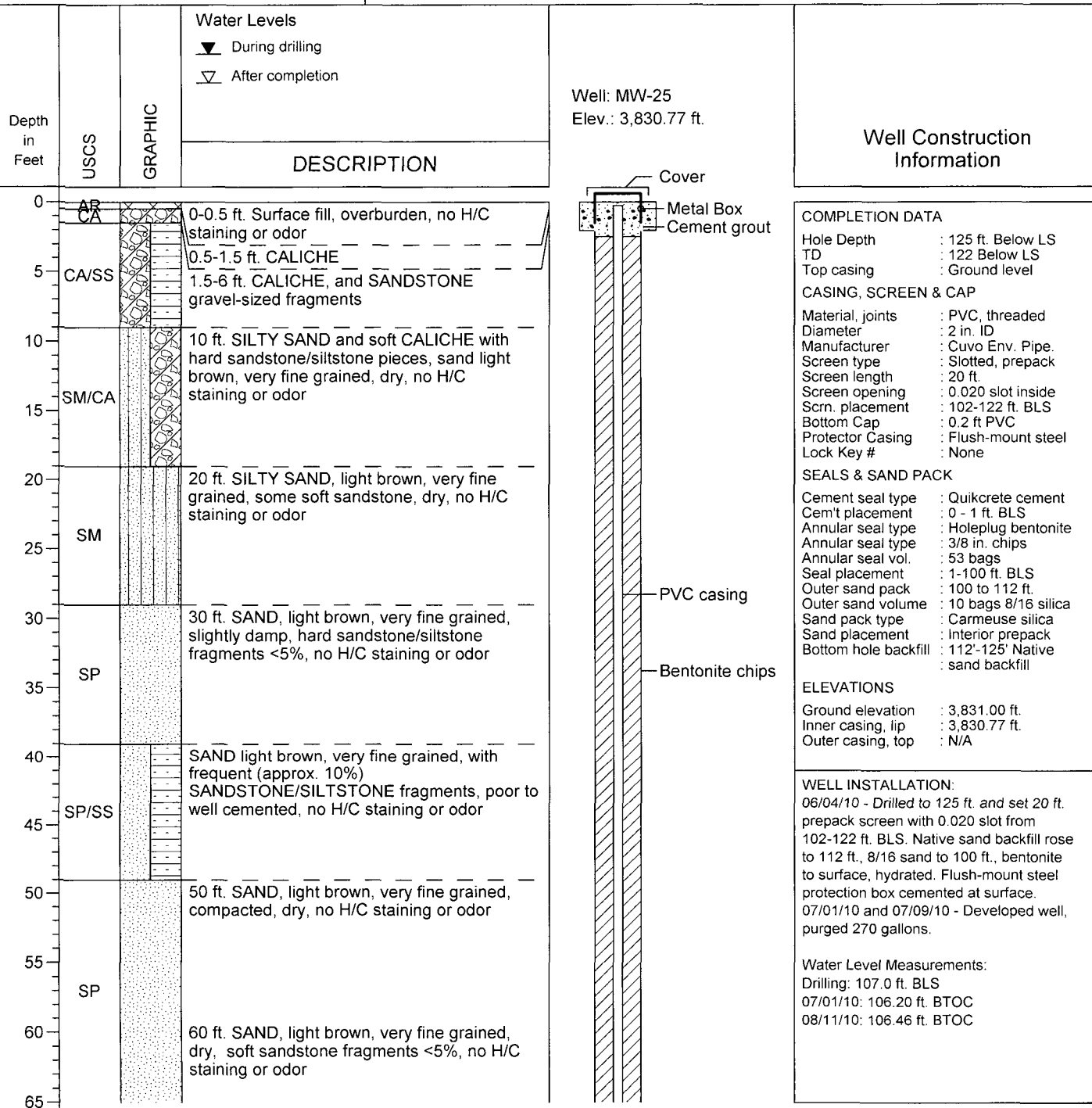
(Page 1 of 2)

Monitor Well 25  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 42.46", W103° 18' 01.58"

Date, Time Started : 06/04/10, 1115  
Date, Time Complete : 06/05/10, 0800  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Split spoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**Notes:**

Drilled to 125 ft. and completed as MW-25  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon





**Safety & Environmental  
Solutions, Inc.**

**LOG OF WELL MW-25**

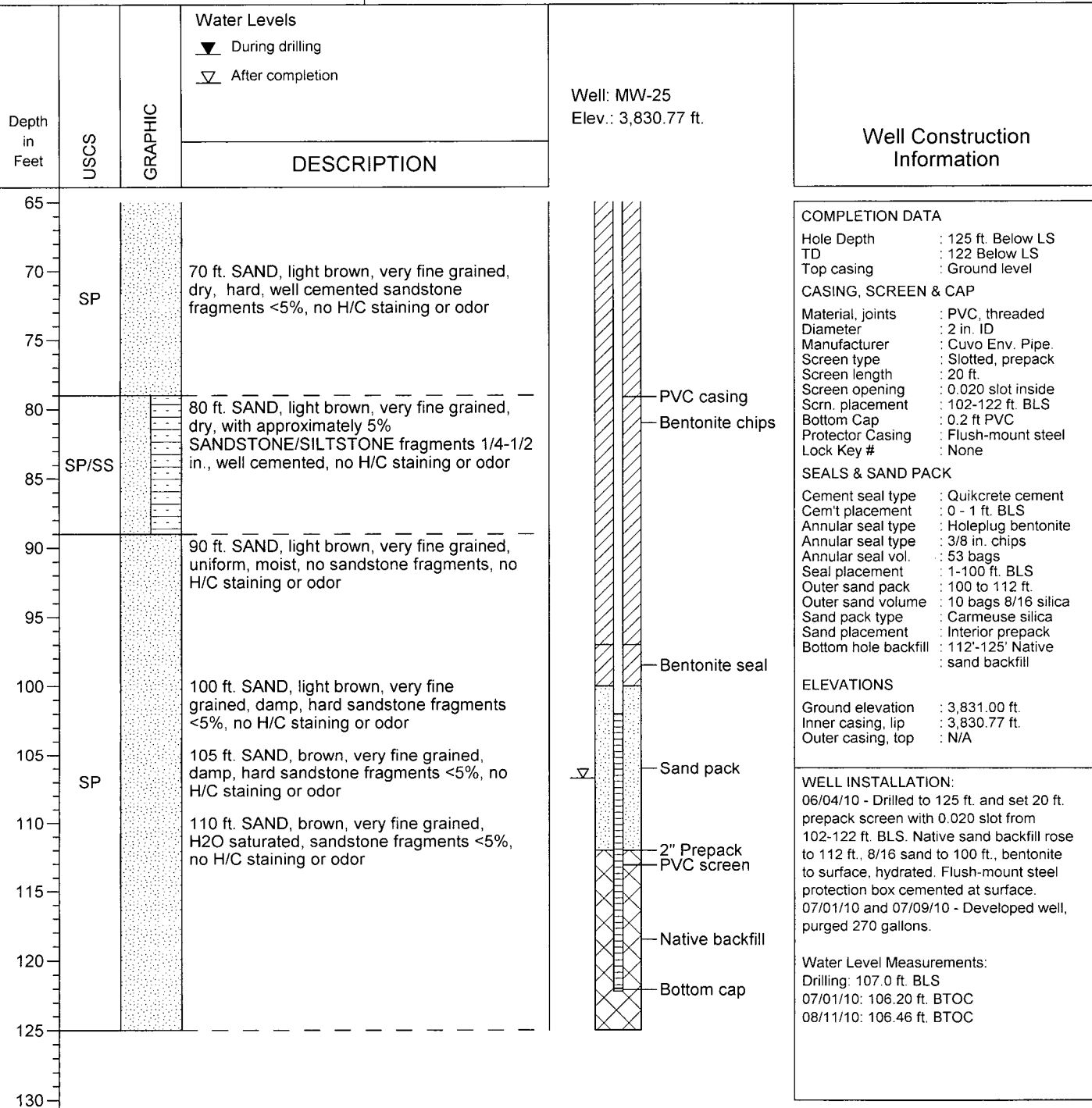
(Page 2 of 2)

Monitor Well 25  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 42.46", W103° 18' 01.58"

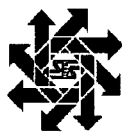
Date, Time Started : 06/04/10, 1115  
Date, Time Complete : 06/05/10, 0800  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**Notes:**

Drilled to 125 ft. and completed as MW-25  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

**LOG OF WELL MW-26**

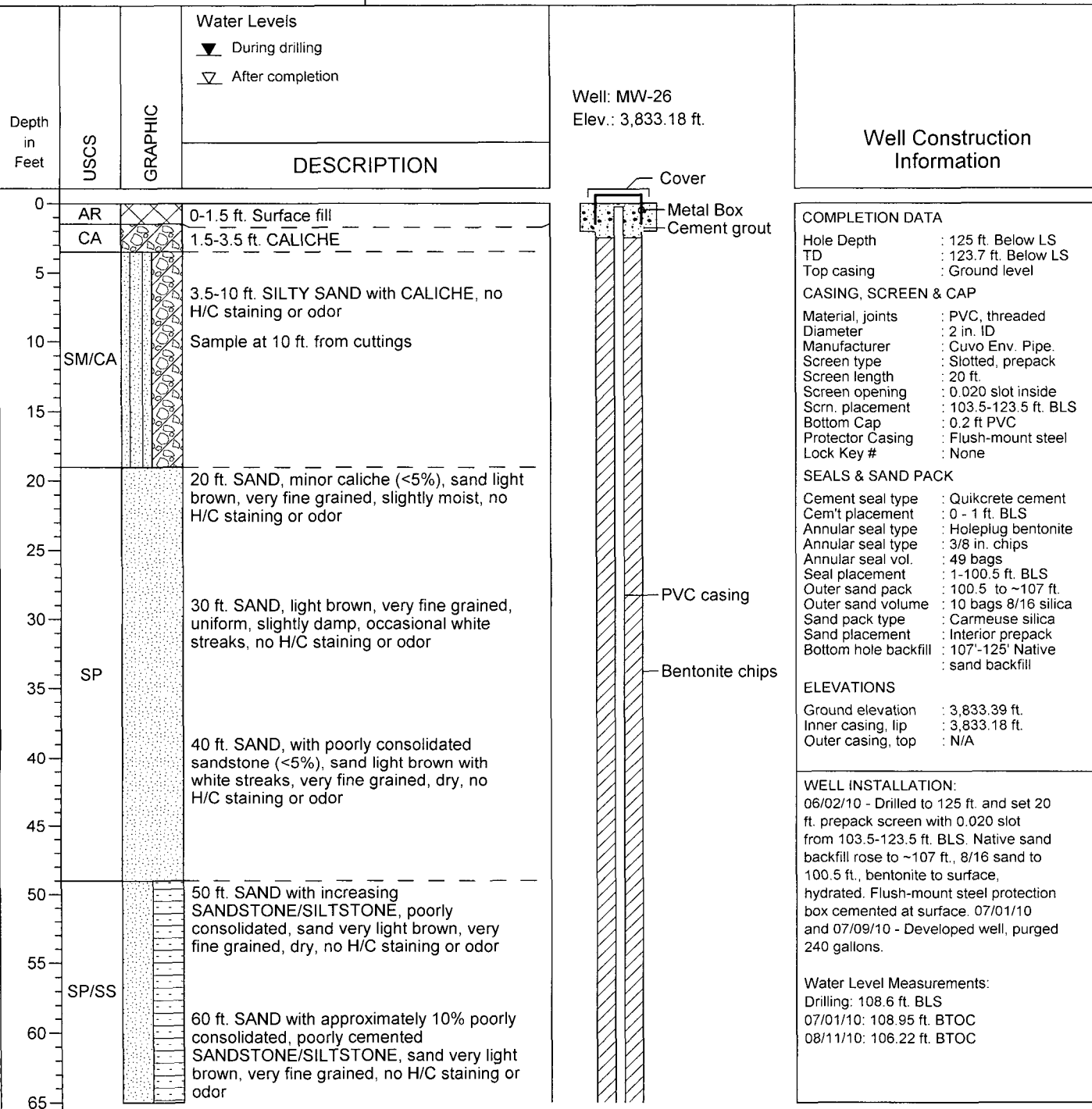
(Page 1 of 2)

Monitor Well 26  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 46.26", W103° 18' 01.21"

Date, Time Started : 06/02/10, 0800  
Date, Time Complete : 06/02/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



Notes:  
Drilled to 125 ft. and completed as MW-26  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon

Toluene from 0.0013 to 0.0024 mg/Kg detected in 9 of 12 samples, retested with no detections, attributed as laboratory artifact due to construction activity.



**Safety & Environmental  
Solutions, Inc.**

**LOG OF WELL MW-26**

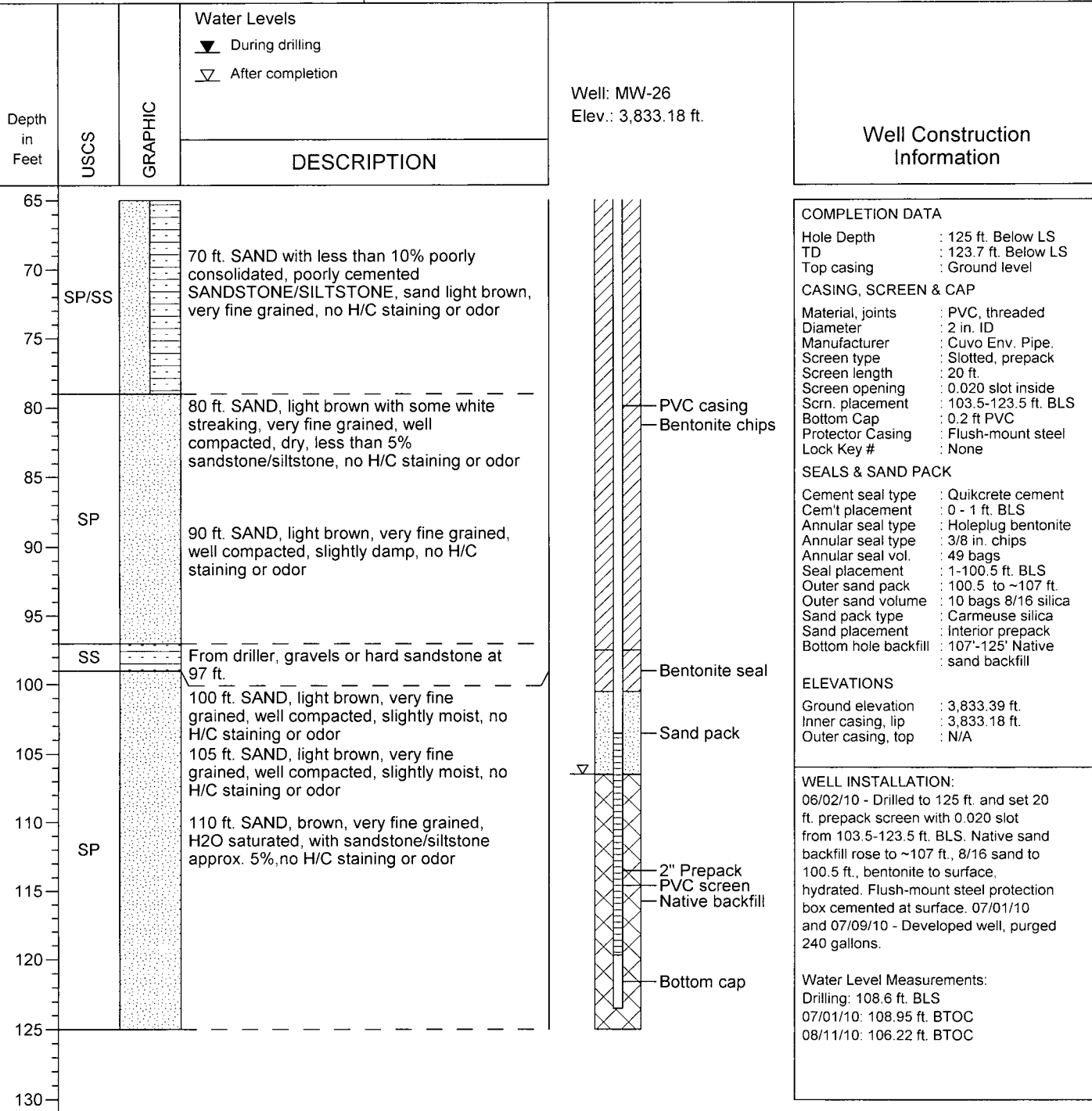
(Page 2 of 2)

Monitor Well 26  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 46.26", W103° 18' 01.21"

Date, Time Started : 06/02/10, 0800  
Date, Time Complete : 06/02/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**Notes:**

Drilled to 125 ft. and completed as MW-26  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon

Toluene from 0.0013 to 0.0024 mg/Kg detected in 9 of 12 samples, retested with no detections, attributed as laboratory artifact due to construction activity.



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# LOG OF WELL MW-27

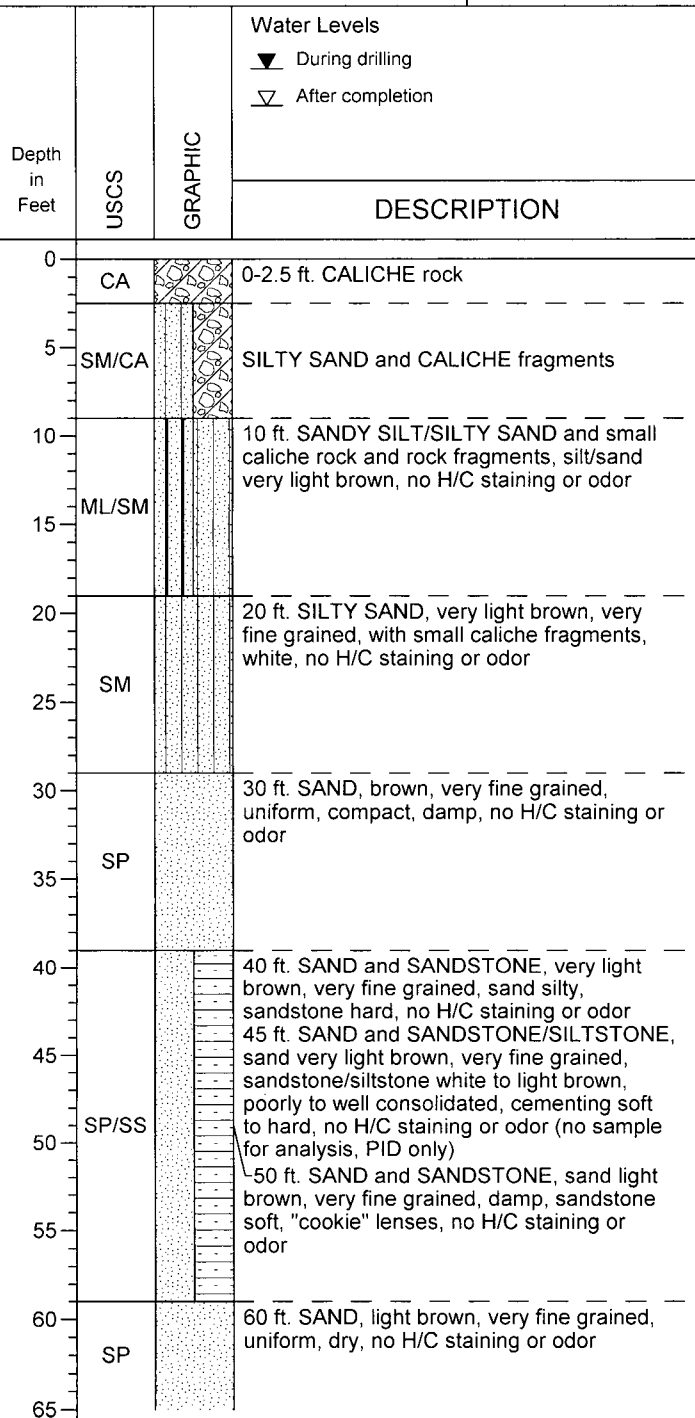
(Page 1 of 2)

Monitor Well 27  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

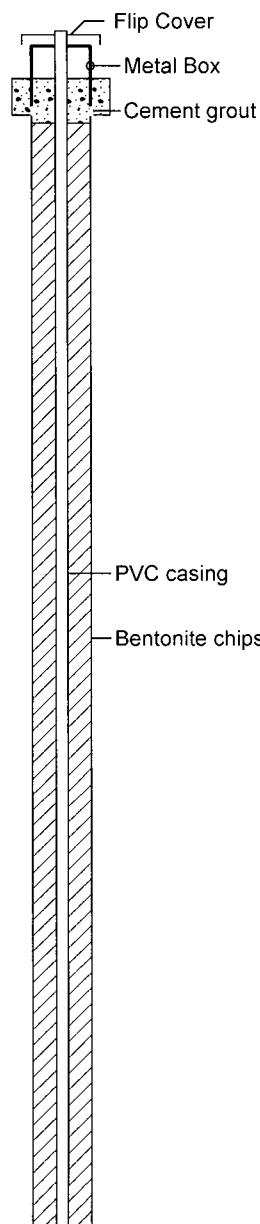
Date, Time Started : 06/05/10, 0830  
Date, Time Complete : 06/05/10, 1415  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

Lea County, New Mexico  
N32° 52' 48.39", W103° 18' 04.14"



Well: MW-27  
Elev.: 3,837.27 ft.



## Well Construction Information

### COMPLETION DATA

Hole Depth : 125 ft. Below LS  
TD : 121.6 Below LS  
Top casing : 2.74 ft. Above LS

### CASING, SCREEN & CAP

Material, joints : PVC, threaded  
Diameter : 2 in. ID  
Manufacturer : Cuvo Env. Pipe  
Screen type : Slotted, prepack  
Screen length : 20 ft.  
Screen opening : 0.020 slot inside  
Scrn. placement : 101.5-121.5 ft. BLS  
Bottom Cap : 0.2 ft PVC  
Protector Casing : Flush-mount steel  
Lock Key # : None

### SEALS & SAND PACK

Cement seal type : Quikcrete cement  
Cem't placement : 0 - 1 ft. BLS  
Annular seal type : Holeplug bentonite  
Annular seal type : 3/8 in. chips  
Annular seal vol. : 53 bags  
Seal placement : 1-99.5 ft. BLS  
Outer sand pack : 99.5 to 105.4 ft.  
Outer sand volume : 8 bags 8/16 silica  
Sand pack type : Carmeuse silica  
Sand placement : Interior prepack  
Bottom hole backfill : 105.4'-125' Native sand backfill

### ELEVATIONS

Ground elevation : 3,834.53 ft.  
Inner casing, lip : 3,837.27 ft.  
Outer casing, top : N/A

### WELL INSTALLATION:

06/05/10 - Drilled to 125 ft. and set 20 ft. prepack screen with 0.020 slot from 101.5 to 121.5 ft. BLS. Native sand backfill rose to 105.4 ft., 8/16 sand to 99.5 ft., bentonite to surface, hydrated. Flush-mount steel protection box cemented at surface.  
07/02/10 - Developed well, purged 110 gallons.

### Water Level Measurements:

Drilling: 106.6 ft. BLS  
07/02/10: 109.85 ft. BTOT  
08/11/10: 109.00 ft. BTOT

### Notes:

Drilled to 125 ft. and completed as MW-27  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

**LOG OF WELL MW-27**

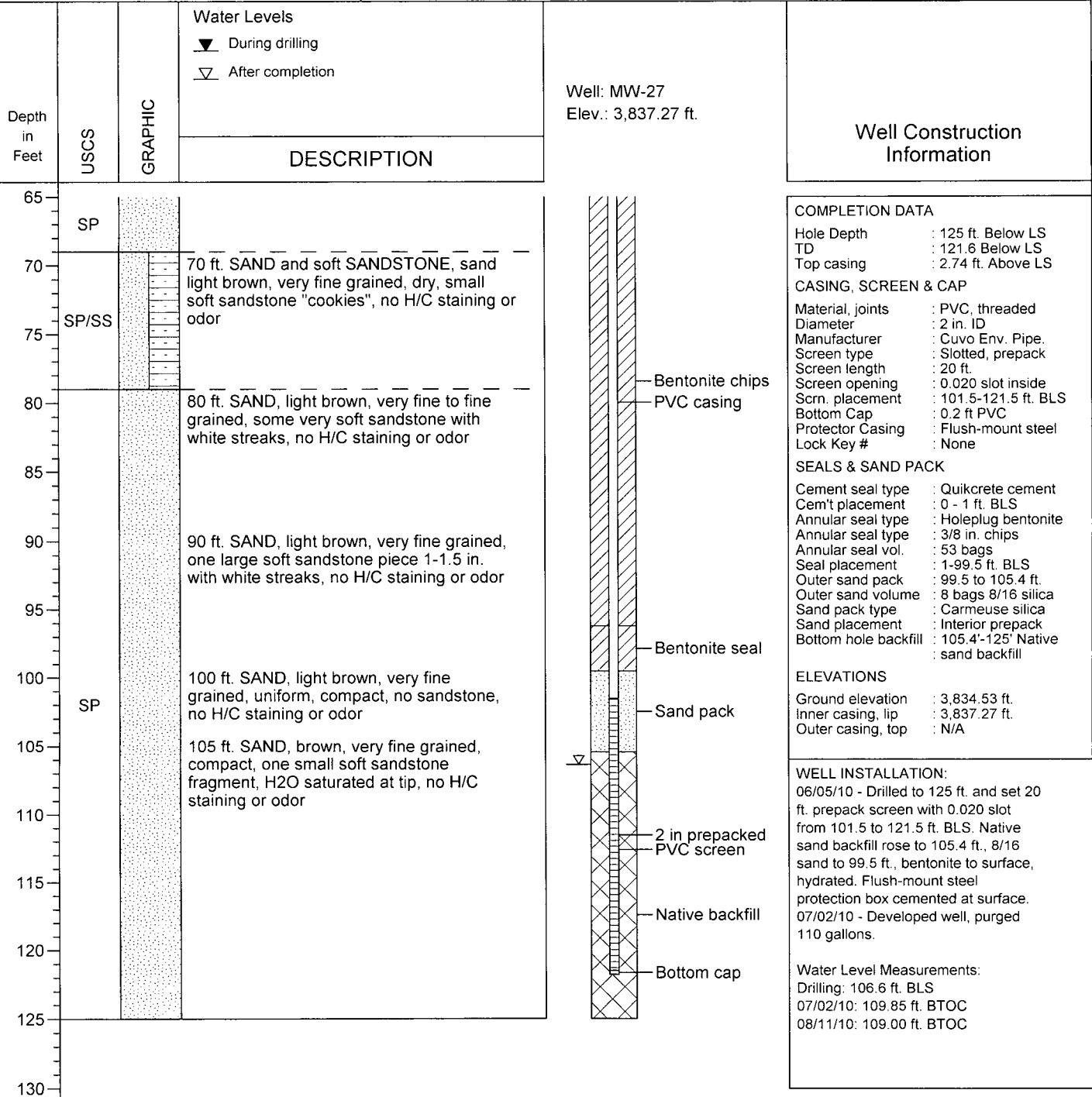
(Page 2 of 2)

Monitor Well 27  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Date, Time Started : 06/05/10, 0830  
Date, Time Complete : 06/05/10, 1415  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo

Lea County, New Mexico  
N32° 52' 48.39", W103° 18' 04.14"



Notes:  
Drilled to 125 ft. and completed as MW-27  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

**LOG OF WELL MW-28**

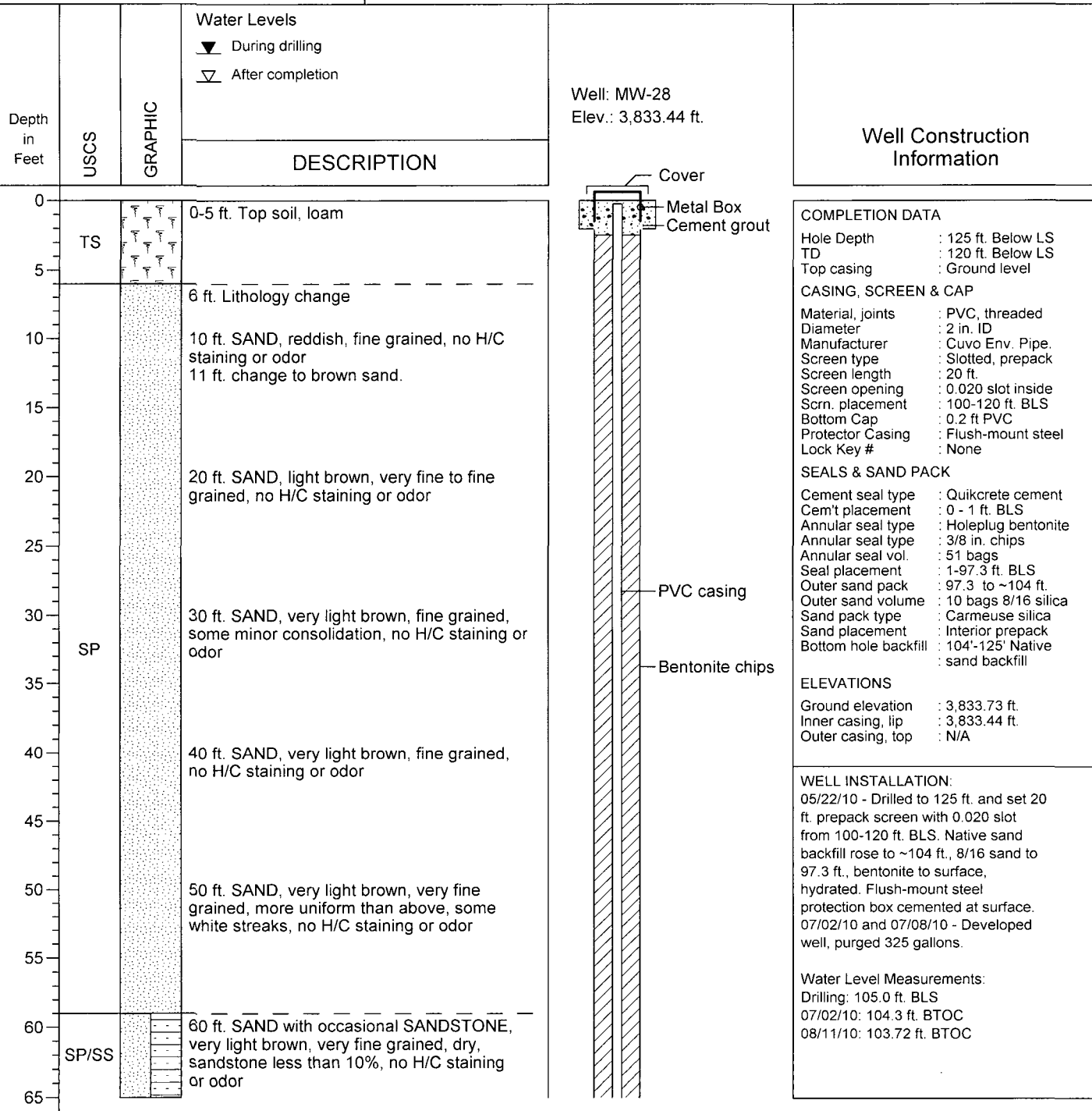
(Page 1 of 2)

Monitor Well 28  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 52.61", W103° 18' 02.77"

Date, Time Started : 05/22/10, 0825  
Date, Time Complete : 05/22/10, 1300  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



Notes:  
Drilled to 125 ft. and completed as MW-28  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

**LOG OF WELL MW-28**

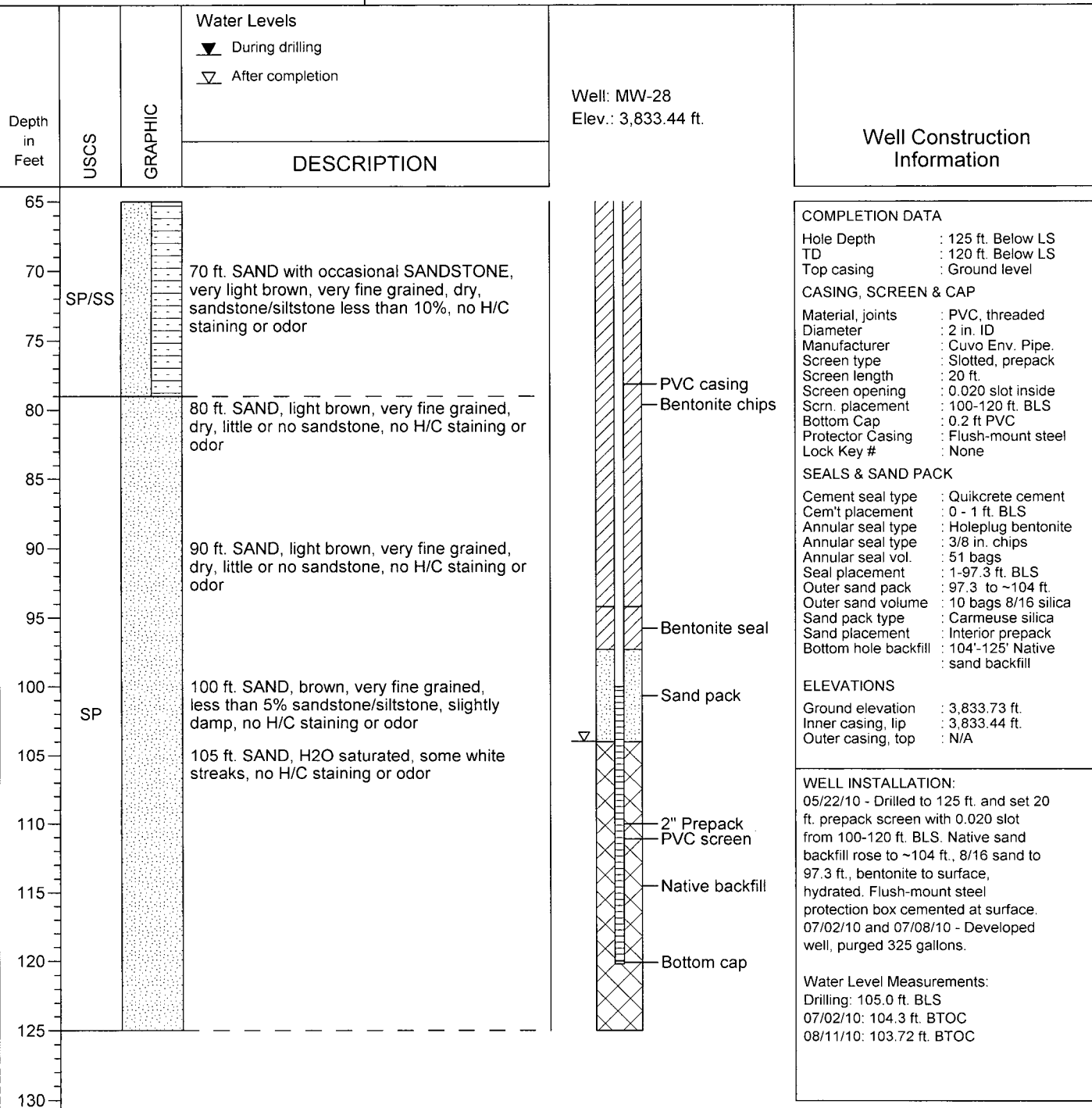
(Page 2 of 2)

Monitor Well 28  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 52.61", W103° 18' 02.77"

Date, Time Started : 05/22/10, 0825  
Date, Time Complete : 05/22/10, 1300  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



**Notes:**

Drilled to 125 ft. and completed as MW-28  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

## LOG OF WELL MW-29

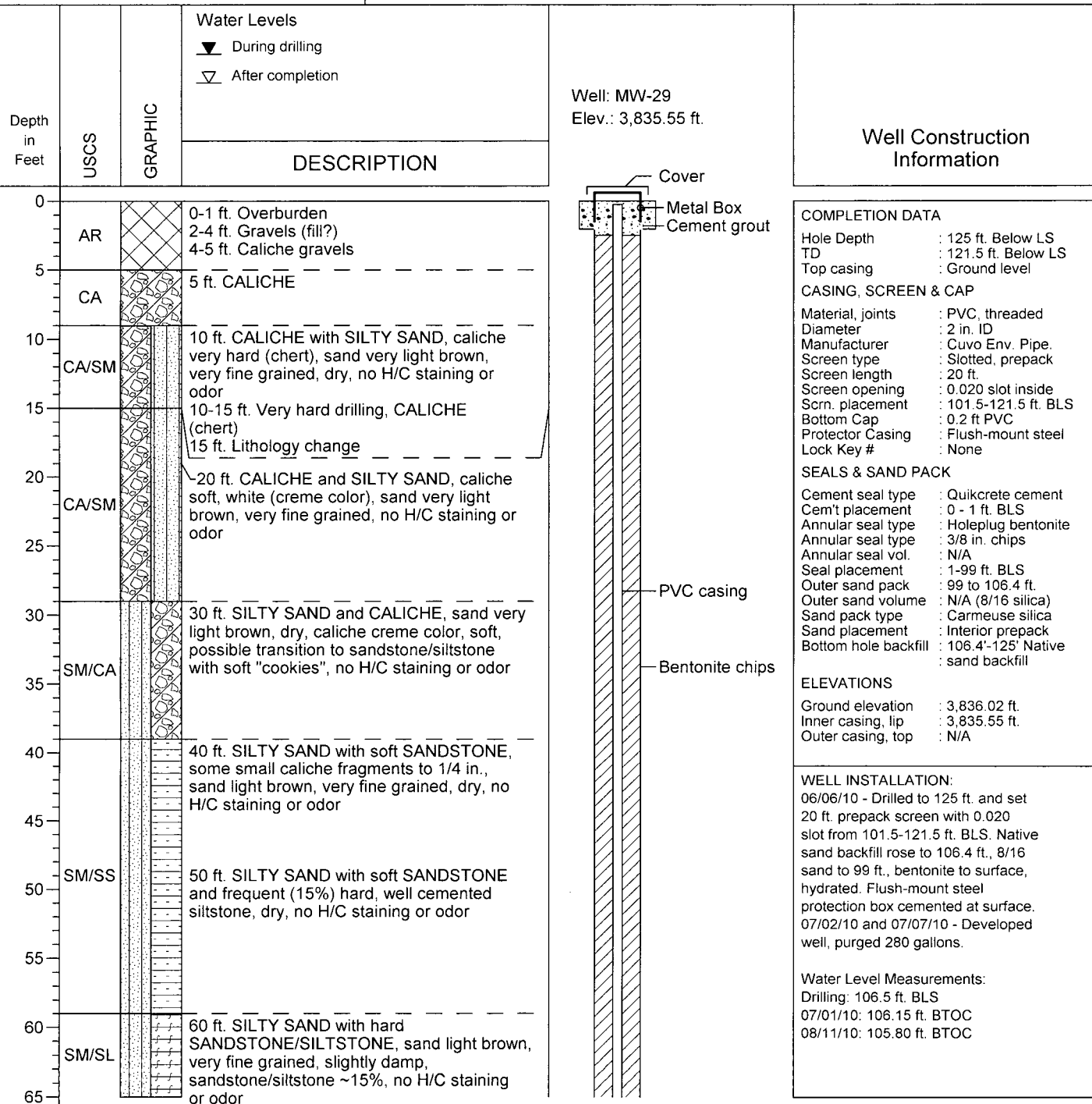
(Page 1 of 2)

Monitor Well 29  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 50.76", W103° 18' 06.96"

Date, Time Started : 06/05/10, 1450  
Date, Time Complete : 06/06/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



### Notes:

Drilled to 125 ft. and completed as MW-29  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon





**Safety & Environmental  
Solutions, Inc.**

**LOG OF WELL MW-29**

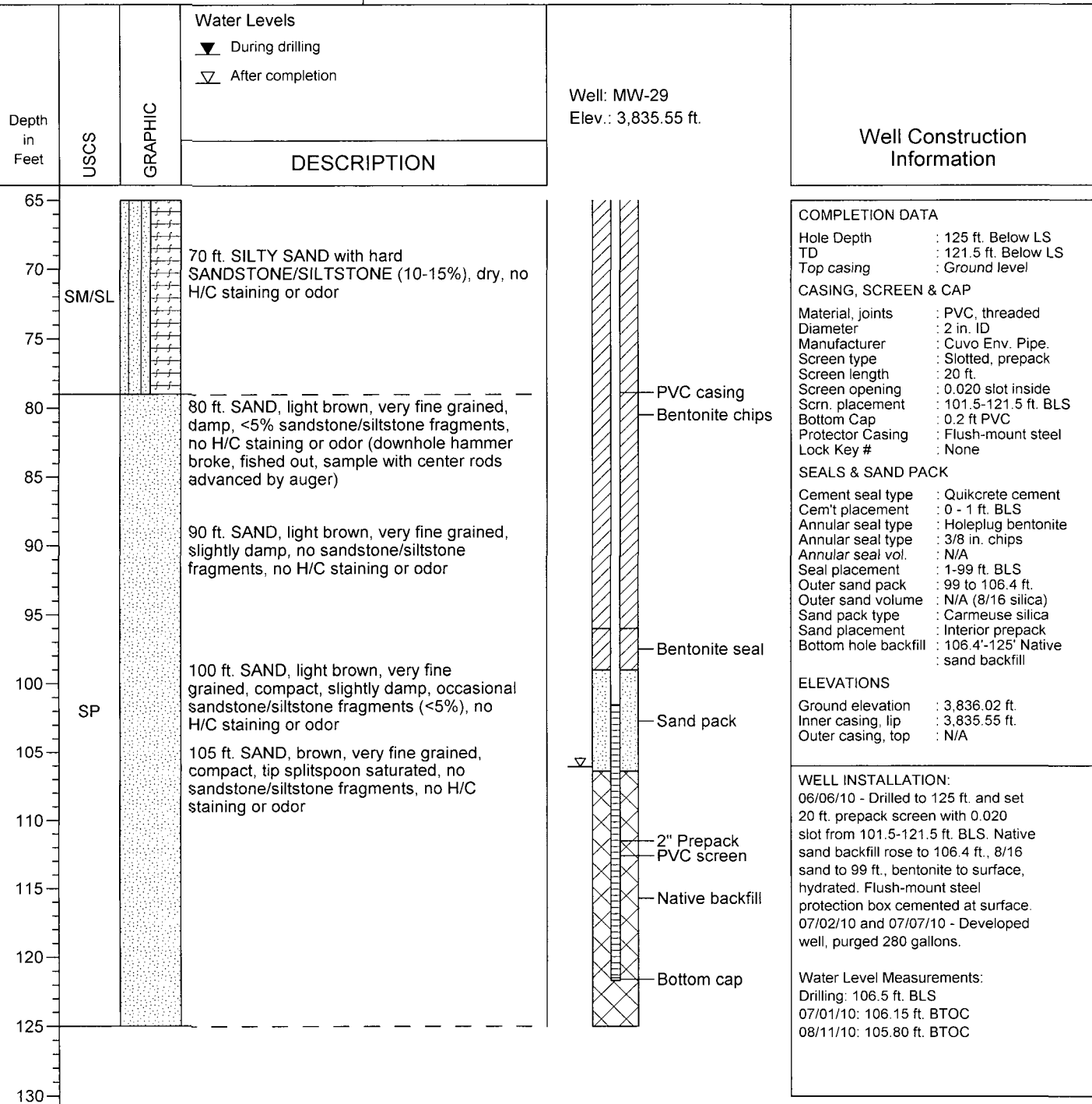
(Page 2 of 2)

Monitor Well 29  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E

Lea County, New Mexico  
N32° 52' 50.76", W103° 18' 06.96"

Date, Time Started : 06/05/10, 1450  
Date, Time Complete : 06/06/10, 1200  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : CME-85

Drilled By : WDC Drilling and Wells  
Sampling Method : 24-in. Splitspoon with  
downhole hammer  
Logged By : David Boyer, PG  
Company Rep. : Steve Terry, Navajo



Notes:  
Drilled to 125 ft. and completed as MW-29  
Sampled every 10 ft. to saturation.  
H/C - Hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

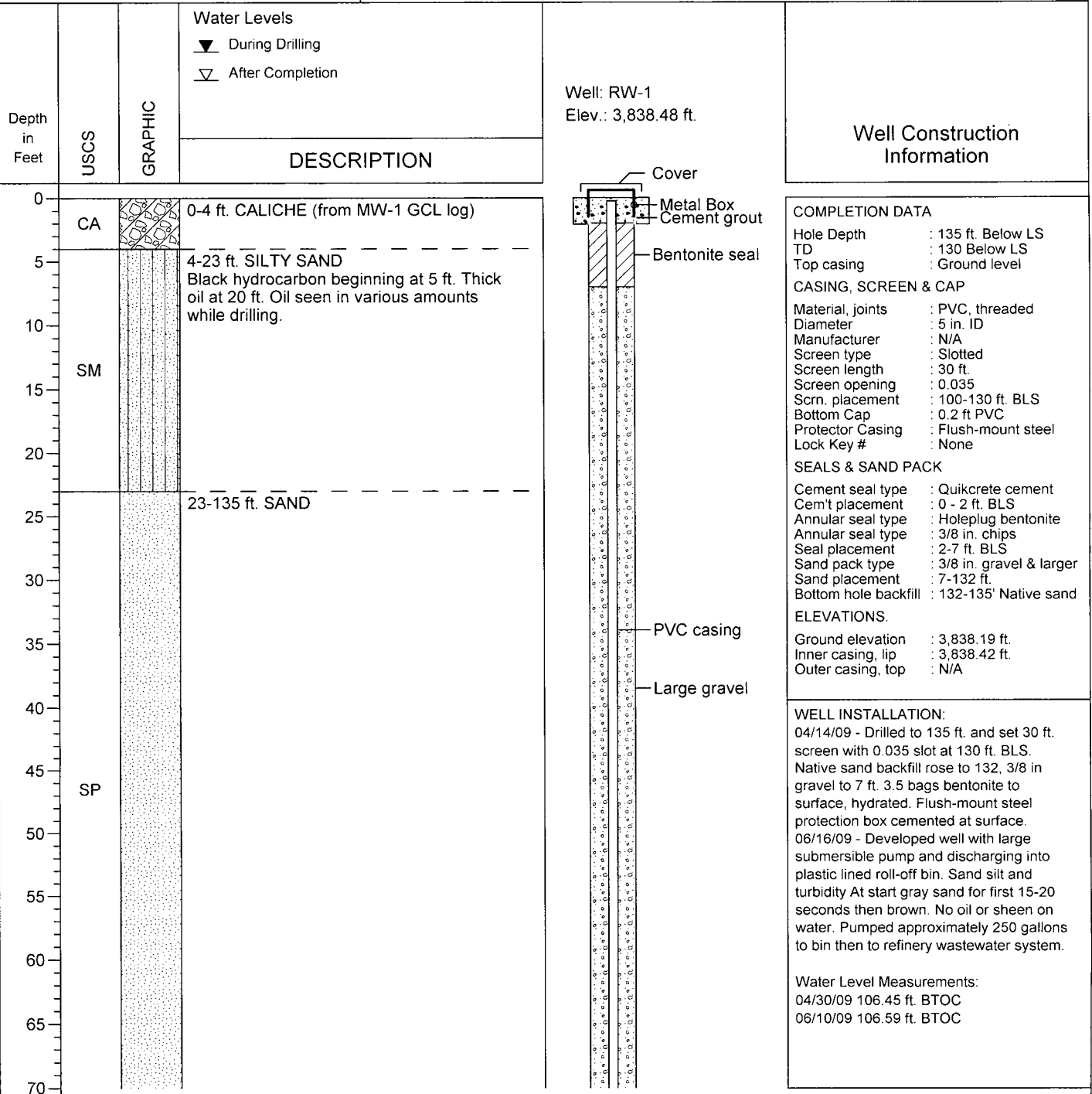
## WELL COMPLETION LOG RW-1

(Page 1 of 2)

Recovery Well 1  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 47.79", W103° 18' 12.37"

Date/Time Started : 04/16/09, 0830  
Date/Time Completed : 04/16/09, 1630  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



Notes:  
H/C - Petroleum hydrocarbon



**Safety & Environmental  
Solutions, Inc.**

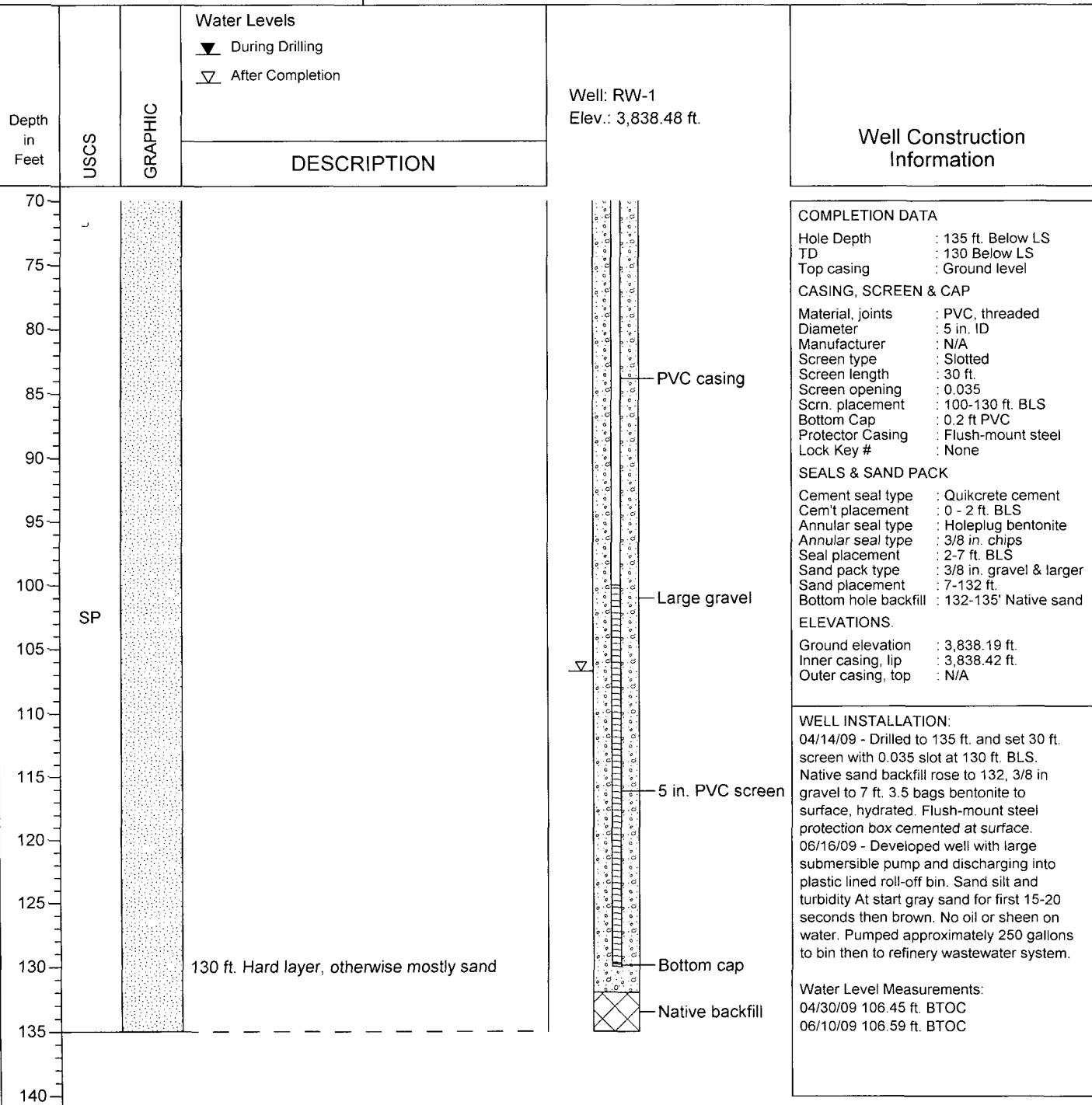
## WELL COMPLETION LOG RW-1

(Page 2 of 2)

Recovery Well 1  
Navajo Refining Company, Lea Refinery  
Section 36, T16S, R36E  
Lea County, New Mexico  
N32° 52' 47.79", W103° 18' 12.37"

Date/Time Started : 04/16/09, 0830  
Date/Time Completed : 04/16/09, 1630  
Hole Diameter : 6 1/8 in. tricone  
Drilling Method : Mud Rotary  
Drilling Equipment : GEFCO SD-200

Drilled By : Eco/Enviro Drilling  
Sampling Method : Cuttings  
Logged By : David Boyer, PG



**Notes:**

H/C - Petroleum hydrocarbon

**Client:** Navajo Refining Company  
**Project:** Lea Refining Soil Borings  
**Work Order:** 1006150

**Work Order Sample Summary**

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1006150-01         | CSB-1 1-2'              | Soil          |                   | 6/2/2010 14:40         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-02         | CSB-1 10'               | Soil          |                   | 6/2/2010 14:50         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-03         | CSB-1 20'               | Soil          |                   | 6/2/2010 15:00         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-04         | CSB-1 30'               | Soil          |                   | 6/2/2010 15:05         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-05         | CSB-1 40'               | Soil          |                   | 6/2/2010 15:10         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-06         | CSB-1 50'               | Soil          |                   | 6/2/2010 15:20         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-07         | CSB-1 60'               | Soil          |                   | 6/2/2010 15:50         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-08         | CSB-1 70'               | Soil          |                   | 6/2/2010 16:05         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-09         | CSB-1 80'               | Soil          |                   | 6/2/2010 16:15         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-10         | CSB-1 90'               | Soil          |                   | 6/2/2010 16:30         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-11         | CSB-1 100'              | Soil          |                   | 6/2/2010 16:30         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-12         | CSB-1 110'              | Soil          |                   | 6/2/2010 16:40         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-13         | CSB-2 10'               | Soil          |                   | 6/3/2010 07:45         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-14         | CSB-2 20'               | Soil          |                   | 6/3/2010 08:10         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-15         | CSB-2 30'               | Soil          |                   | 6/3/2010 08:20         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-16         | CSB-2 40'               | Soil          |                   | 6/3/2010 08:25         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-17         | CSB-2 50'               | Soil          |                   | 6/3/2010 08:35         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-18         | CSB-2 60'               | Soil          |                   | 6/3/2010 08:45         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-19         | CSB-2 70'               | Soil          |                   | 6/3/2010 08:50         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-20         | CSB-2 80'               | Soil          |                   | 6/3/2010 09:10         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-21         | CSB-2 90'               | Soil          |                   | 6/3/2010 09:20         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-22         | CSB-2 100'              | Soil          |                   | 6/3/2010 09:30         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-23         | CSB-2 110'              | Soil          |                   | 6/3/2010 09:40         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-24         | CSB-3 10'               | Soil          |                   | 6/3/2010 13:10         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-25         | CSB-3 20'               | Soil          |                   | 6/3/2010 13:20         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-26         | CSB-3 30'               | Soil          |                   | 6/3/2010 13:30         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-27         | CSB-3 40'               | Soil          |                   | 6/3/2010 13:40         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-28         | CSB-3 50'               | Soil          |                   | 6/3/2010 13:45         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-29         | CSB-3 60'               | Soil          |                   | 6/3/2010 13:55         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-30         | CSB-3 70'               | Soil          |                   | 6/3/2010 14:00         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-32         | CSB-3 80'               | Soil          |                   | 6/3/2010 14:10         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-33         | CSB-3 90'               | Soil          |                   | 6/3/2010 14:20         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-34         | CSB-3 100'              | Soil          |                   | 6/3/2010 14:30         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-35         | CSB-3 110'              | Soil          |                   | 6/3/2010 14:40         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006150-36         | Trip Blank 051710-27    | Water         |                   | 6/3/2010               | 6/4/2010 08:55       | <input type="checkbox"/> |

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-1 1-2'

Collection Date: 6/2/2010 02:40 PM

Work Order: 1006150

Lab ID: 1006150-01

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 6.7    |      | 1.7            | mg/Kg | 1                   | 6/8/2010 11:12 AM  |
| TPH (Motor Oil Range)          | 27     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 11:12 AM  |
| Surr: 2-Fluorobiphenyl         | 76.1   |      | 70-130         | %REC  | 1                   | 6/8/2010 11:12 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 12:44 AM |
| Surr: 4-Bromofluorobenzene     | 84.3   |      | 70-130         | %REC  | 1                   | 6/11/2010 12:44 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 01:04 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 01:04 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 01:04 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 01:04 AM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 75-131         | %REC  | 1                   | 6/10/2010 01:04 AM |
| Surr: Trifluorotoluene         | 98.1   |      | 73-130         | %REC  | 1                   | 6/10/2010 01:04 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 208    |      | 4.91           | mg/Kg | 1                   | 6/8/2010 06:17 PM  |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                   | 6/8/2010 06:17 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-1 10'

Lab ID: 1006150-02

Collection Date: 6/2/2010 02:50 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 11:31 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 11:31 AM  |
| Surr: 2-Fluorobiphenyl         | 71.0   |      | 70-130         | %REC  | 1                   | 6/8/2010 11:31 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 01:07 AM |
| Surr: 4-Bromofluorobenzene     | 86.8   |      | 70-130         | %REC  | 1                   | 6/11/2010 01:07 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 02:04 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 02:04 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 02:04 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 02:04 AM |
| Surr: 4-Bromofluorobenzene     | 106    |      | 75-131         | %REC  | 1                   | 6/10/2010 02:04 AM |
| Surr: Trifluorotoluene         | 99.4   |      | 73-130         | %REC  | 1                   | 6/10/2010 02:04 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 38.0   |      | 4.98           | mg/Kg | 1                   | 6/8/2010 07:22 PM  |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                   | 6/8/2010 07:22 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company  
 Project: Lea Refining Soil Borings  
 Sample ID: CSB-1 20'  
 Collection Date: 6/2/2010 03:00 PM

Work Order: 1006150  
 Lab ID: 1006150-03  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 11:50 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 11:50 AM  |
| Surr: 2-Fluorobiphenyl         | 71.7   |      | 70-130         | %REC  | 1                   | 6/8/2010 11:50 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 01:29 AM |
| Surr: 4-Bromofluorobenzene     | 82.9   |      | 70-130         | %REC  | 1                   | 6/11/2010 01:29 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 02:24 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 02:24 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 02:24 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 02:24 AM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 75-131         | %REC  | 1                   | 6/10/2010 02:24 AM |
| Surr: Trifluorotoluene         | 98.4   |      | 73-130         | %REC  | 1                   | 6/10/2010 02:24 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 11.5   |      | 4.99           | mg/Kg | 1                   | 6/8/2010 07:44 PM  |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                   | 6/8/2010 07:44 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-1 30'

Lab ID: 1006150-04

Collection Date: 6/2/2010 03:05 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 12:10 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 12:10 PM  |
| Surr: 2-Fluorobiphenyl         | 71.0   |      | 70-130         | %REC  | 1                   | 6/8/2010 12:10 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 01:52 AM |
| Surr: 4-Bromofluorobenzene     | 84.6   |      | 70-130         | %REC  | 1                   | 6/11/2010 01:52 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 02:44 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 02:44 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 02:44 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 02:44 AM |
| Surr: 4-Bromofluorobenzene     | 104    |      | 75-131         | %REC  | 1                   | 6/10/2010 02:44 AM |
| Surr: Trifluorotoluene         | 97.2   |      | 73-130         | %REC  | 1                   | 6/10/2010 02:44 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 11.1   |      | 5.00           | mg/Kg | 1                   | 6/8/2010 08:06 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                   | 6/8/2010 08:06 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-1 40'

Collection Date: 6/2/2010 03:10 PM

Work Order: 1006150

Lab ID: 1006150-05

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 12:29 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 12:29 PM  |
| Surr: 2-Fluorobiphenyl         | 70.9   |      | 70-130         | %REC  | 1                   | 6/8/2010 12:29 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 02:15 AM |
| Surr: 4-Bromofluorobenzene     | 83.8   |      | 70-130         | %REC  | 1                   | 6/11/2010 02:15 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 03:04 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 03:04 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 03:04 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 03:04 AM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 75-131         | %REC  | 1                   | 6/10/2010 03:04 AM |
| Surr: Trifluorotoluene         | 98.9   |      | 73-130         | %REC  | 1                   | 6/10/2010 03:04 AM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 12.2   |      | 5.00           | mg/Kg | 1                   | 6/8/2010 08:28 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                   | 6/8/2010 08:28 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-1 50'

Lab ID: 1006150-06

Collection Date: 6/2/2010 03:20 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 12:48 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 12:48 PM  |
| Surr: 2-Fluorobiphenyl         | 70.7   |      | 70-130         | %REC  | 1                   | 6/8/2010 12:48 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 02:37 AM |
| Surr: 4-Bromofluorobenzene     | 85.7   |      | 70-130         | %REC  | 1                   | 6/11/2010 02:37 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 03:24 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 03:24 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 03:24 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 03:24 AM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 75-131         | %REC  | 1                   | 6/10/2010 03:24 AM |
| Surr: Trifluorotoluene         | 99.1   |      | 73-130         | %REC  | 1                   | 6/10/2010 03:24 AM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 15.8   |      | 4.97           | mg/Kg | 1                   | 6/8/2010 08:49 PM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                   | 6/8/2010 08:49 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company  
 Project: Lea Refining Soil Borings  
 Sample ID: CSB-1 60'  
 Collection Date: 6/2/2010 03:50 PM

Work Order: 1006150  
 Lab ID: 1006150-07  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/16/2010 03:01 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/16/2010 03:01 PM |
| Surr: 2-Fluorobiphenyl         | 79.1   |      | 70-130         | %REC  | 1                   | 6/16/2010 03:01 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 08:13 PM |
| Surr: 4-Bromofluorobenzene     | 88.7   |      | 70-130         | %REC  | 1                   | 6/11/2010 08:13 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 03:44 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 03:44 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 03:44 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 03:44 AM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 75-131         | %REC  | 1                   | 6/10/2010 03:44 AM |
| Surr: Trifluorotoluene         | 96.8   |      | 73-130         | %REC  | 1                   | 6/10/2010 03:44 AM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 15.0   |      | 4.94           | mg/Kg | 1                   | 6/8/2010 09:54 PM  |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                   | 6/8/2010 09:54 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-1 70'

Collection Date: 6/2/2010 04:05 PM

Work Order: 1006150

Lab ID: 1006150-08

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/16/2010 05:36 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/16/2010 05:36 PM |
| Surr: 2-Fluorobiphenyl         | 76.9   |      | 70-130         | %REC  | 1                   | 6/16/2010 05:36 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 08:36 PM |
| Surr: 4-Bromofluorobenzene     | 89.1   |      | 70-130         | %REC  | 1                   | 6/11/2010 08:36 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 04:04 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 04:04 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 04:04 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 04:04 AM |
| Surr: 4-Bromofluorobenzene     | 107    |      | 75-131         | %REC  | 1                   | 6/10/2010 04:04 AM |
| Surr: Trifluorotoluene         | 99.6   |      | 73-130         | %REC  | 1                   | 6/10/2010 04:04 AM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 14.7   |      | 4.99           | mg/Kg | 1                   | 6/8/2010 10:16 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                   | 6/8/2010 10:16 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-1 80'

Lab ID: 1006150-09

Collection Date: 6/2/2010 04:15 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report<br>Limit | Units | Dilution<br>Factor  | Date Analyzed      |
|--------------------------------|--------|------|-----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                 |       |                     |                    |
|                                |        |      | <b>SW8015M</b>  |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7             | mg/Kg | 1                   | 6/8/2010 01:47 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4             | mg/Kg | 1                   | 6/8/2010 01:47 PM  |
| Surr: 2-Fluorobiphenyl         | 70.5   |      | 70-130          | %REC  | 1                   | 6/8/2010 01:47 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                 |       |                     |                    |
|                                |        |      | <b>SW8015</b>   |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050           | mg/Kg | 1                   | 6/11/2010 08:59 PM |
| Surr: 4-Bromofluorobenzene     | 87.6   |      | 70-130          | %REC  | 1                   | 6/11/2010 08:59 PM |
| <b>BTEX</b>                    |        |      |                 |       |                     |                    |
|                                |        |      | <b>SW8021B</b>  |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010          | mg/Kg | 1                   | 6/10/2010 04:24 AM |
| Toluene                        | ND     |      | 0.0010          | mg/Kg | 1                   | 6/10/2010 04:24 AM |
| Ethylbenzene                   | ND     |      | 0.0010          | mg/Kg | 1                   | 6/10/2010 04:24 AM |
| Xylenes, Total                 | ND     |      | 0.0030          | mg/Kg | 1                   | 6/10/2010 04:24 AM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 75-131          | %REC  | 1                   | 6/10/2010 04:24 AM |
| Surr: Trifluorotoluene         | 98.6   |      | 73-130          | %REC  | 1                   | 6/10/2010 04:24 AM |
| <b>ANIONS</b>                  |        |      |                 |       |                     |                    |
|                                |        |      | <b>E300</b>     |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 19.0   |      | 4.97            | mg/Kg | 1                   | 6/8/2010 10:38 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115          | %REC  | 1                   | 6/8/2010 10:38 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-1 90'

Collection Date: 6/2/2010 04:30 PM

Work Order: 1006150

Lab ID: 1006150-10

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 03:23 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 03:23 PM  |
| Surr: 2-Fluorobiphenyl         | 71.3   |      | 70-130         | %REC  | 1                   | 6/8/2010 03:23 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 09:22 PM |
| Surr: 4-Bromofluorobenzene     | 87.0   |      | 70-130         | %REC  | 1                   | 6/11/2010 09:22 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 04:44 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 04:44 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 04:44 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 04:44 AM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 75-131         | %REC  | 1                   | 6/10/2010 04:44 AM |
| Surr: Trifluorotoluene         | 97.4   |      | 73-130         | %REC  | 1                   | 6/10/2010 04:44 AM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 7.18   |      | 4.98           | mg/Kg | 1                   | 6/8/2010 10:59 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                   | 6/8/2010 10:59 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-1 100'

Collection Date: 6/2/2010 04:30 PM

Work Order: 1006150

Lab ID: 1006150-11

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 06:18 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 06:18 PM  |
| Surr: 2-Fluorobiphenyl         | 74.0   |      | 70-130         | %REC  | 1                   | 6/8/2010 06:18 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 09:45 PM |
| Surr: 4-Bromofluorobenzene     | 87.0   |      | 70-130         | %REC  | 1                   | 6/11/2010 09:45 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 05:04 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 05:04 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 05:04 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 05:04 AM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 75-131         | %REC  | 1                   | 6/10/2010 05:04 AM |
| Surr: Trifluorotoluene         | 97.6   |      | 73-130         | %REC  | 1                   | 6/10/2010 05:04 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 6.63   |      | 4.91           | mg/Kg | 1                   | 6/8/2010 11:21 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                   | 6/8/2010 11:21 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-1 110'

Collection Date: 6/2/2010 04:40 PM

Work Order: 1006150

Lab ID: 1006150-12

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/16/2010 03:40 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/16/2010 03:40 PM |
| Surr: 2-Fluorobiphenyl         | 82.6   |      | 70-130         | %REC  | 1                   | 6/16/2010 03:40 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 10:07 PM |
| Surr: 4-Bromofluorobenzene     | 84.9   |      | 70-130         | %REC  | 1                   | 6/11/2010 10:07 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:04 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:04 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:04 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 06:04 AM |
| Surr: 4-Bromofluorobenzene     | 99.3   |      | 75-131         | %REC  | 1                   | 6/10/2010 06:04 AM |
| Surr: Trifluorotoluene         | 95.4   |      | 73-130         | %REC  | 1                   | 6/10/2010 06:04 AM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 14.6   |      | 4.96           | mg/Kg | 1                   | 6/8/2010 11:43 PM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                   | 6/8/2010 11:43 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-2 10'

Collection Date: 6/3/2010 07:45 AM

Work Order: 1006150

Lab ID: 1006150-13

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 06:57 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 06:57 PM  |
| Surr: 2-Fluorobiphenyl         | 76.1   |      | 70-130         | %REC  | 1                   | 6/8/2010 06:57 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 10:30 PM |
| Surr: 4-Bromofluorobenzene     | 90.6   |      | 70-130         | %REC  | 1                   | 6/11/2010 10:30 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:24 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:24 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:24 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 06:24 AM |
| Surr: 4-Bromofluorobenzene     | 109    |      | 75-131         | %REC  | 1                   | 6/10/2010 06:24 AM |
| Surr: Trifluorotoluene         | 99.1   |      | 73-130         | %REC  | 1                   | 6/10/2010 06:24 AM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 6.14   |      | 4.96           | mg/Kg | 1                   | 6/9/2010 12:05 AM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                   | 6/9/2010 12:05 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-2 20'

Collection Date: 6/3/2010 08:10 AM

Work Order: 1006150

Lab ID: 1006150-14

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 07:16 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 07:16 PM  |
| Surr: 2-Fluorobiphenyl         | 76.5   |      | 70-130         | %REC  | 1                   | 6/8/2010 07:16 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 10:53 PM |
| Surr: 4-Bromofluorobenzene     | 87.3   |      | 70-130         | %REC  | 1                   | 6/11/2010 10:53 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:43 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:43 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:43 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 06:43 AM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 75-131         | %REC  | 1                   | 6/10/2010 06:43 AM |
| Surr: Trifluorotoluene         | 96.8   |      | 73-130         | %REC  | 1                   | 6/10/2010 06:43 AM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 7.19   |      | 4.99           | mg/Kg | 1                   | 6/9/2010 12:26 AM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                   | 6/9/2010 12:26 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company  
 Project: Lea Refining Soil Borings  
 Sample ID: CSB-2 30'  
 Collection Date: 6/3/2010 08:20 AM

Work Order: 1006150  
 Lab ID: 1006150-15  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 07:35 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 07:35 PM  |
| Surr: 2-Fluorobiphenyl         | 77.1   |      | 70-130         | %REC  | 1                   | 6/8/2010 07:35 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 11:16 PM |
| Surr: 4-Bromofluorobenzene     | 86.9   |      | 70-130         | %REC  | 1                   | 6/11/2010 11:16 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:03 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:03 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:03 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 07:03 AM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 75-131         | %REC  | 1                   | 6/10/2010 07:03 AM |
| Surr: Trifluorotoluene         | 98.5   |      | 73-130         | %REC  | 1                   | 6/10/2010 07:03 AM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 6.28   |      | 4.97           | mg/Kg | 1                   | 6/9/2010 12:48 AM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                   | 6/9/2010 12:48 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-2 40'

Collection Date: 6/3/2010 08:25 AM

Work Order: 1006150

Lab ID: 1006150-16

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 07:55 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 07:55 PM  |
| Surr: 2-Fluorobiphenyl         | 89.9   |      | 70-130         | %REC  | 1                   | 6/8/2010 07:55 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 11:39 PM |
| Surr: 4-Bromofluorobenzene     | 85.8   |      | 70-130         | %REC  | 1                   | 6/11/2010 11:39 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:23 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:23 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:23 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 07:23 AM |
| Surr: 4-Bromofluorobenzene     | 108    |      | 75-131         | %REC  | 1                   | 6/10/2010 07:23 AM |
| Surr: Trifluorotoluene         | 98.2   |      | 73-130         | %REC  | 1                   | 6/10/2010 07:23 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 8.42   |      | 4.91           | mg/Kg | 1                   | 6/9/2010 01:10 AM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                   | 6/9/2010 01:10 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-2 50'

Collection Date: 6/3/2010 08:35 AM

Work Order: 1006150

Lab ID: 1006150-17

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 08:14 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 08:14 PM  |
| Surr: 2-Fluorobiphenyl         | 86.3   |      | 70-130         | %REC  | 1                   | 6/8/2010 08:14 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/12/2010 12:47 AM |
| Surr: 4-Bromofluorobenzene     | 89.1   |      | 70-130         | %REC  | 1                   | 6/12/2010 12:47 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 05:26 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 05:26 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 05:26 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 05:26 PM |
| Surr: 4-Bromofluorobenzene     | 112    |      | 75-131         | %REC  | 1                   | 6/10/2010 05:26 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                   | 6/10/2010 05:26 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 6.83   |      | 4.98           | mg/Kg | 1                   | 6/9/2010 02:15 AM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                   | 6/9/2010 02:15 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-2 60'

Lab ID: 1006150-18

Collection Date: 6/3/2010 08:45 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 08:34 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 08:34 PM  |
| Surr: 2-Fluorobiphenyl         | 77.7   |      | 70-130         | %REC  | 1                   | 6/8/2010 08:34 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/12/2010 01:10 AM |
| Surr: 4-Bromofluorobenzene     | 86.2   |      | 70-130         | %REC  | 1                   | 6/12/2010 01:10 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 05:46 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 05:46 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 05:46 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 05:46 PM |
| Surr: 4-Bromofluorobenzene     | 113    |      | 75-131         | %REC  | 1                   | 6/10/2010 05:46 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                   | 6/10/2010 05:46 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 6.99   |      | 4.98           | mg/Kg | 1                   | 6/9/2010 02:36 AM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                   | 6/9/2010 02:36 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-2 70'

Lab ID: 1006150-19

Collection Date: 6/3/2010 08:50 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/16/2010 03:59 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/16/2010 03:59 PM |
| Surr: 2-Fluorobiphenyl         | 84.0   |      | 70-130         | %REC  | 1                   | 6/16/2010 03:59 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/12/2010 01:33 AM |
| Surr: 4-Bromofluorobenzene     | 88.5   |      | 70-130         | %REC  | 1                   | 6/12/2010 01:33 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:07 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:07 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:07 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 06:07 PM |
| Surr: 4-Bromofluorobenzene     | 112    |      | 75-131         | %REC  | 1                   | 6/10/2010 06:07 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                   | 6/10/2010 06:07 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 6.85   |      | 4.98           | mg/Kg | 1                   | 6/9/2010 02:58 AM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                   | 6/9/2010 02:58 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-2 80'

Collection Date: 6/3/2010 09:10 AM

Work Order: 1006150

Lab ID: 1006150-20

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 07:16 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 07:16 PM  |
| Surr: 2-Fluorobiphenyl         | 70.4   |      | 70-130         | %REC  | 1                   | 6/8/2010 07:16 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/12/2010 01:55 AM |
| Surr: 4-Bromofluorobenzene     | 89.9   |      | 70-130         | %REC  | 1                   | 6/12/2010 01:55 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:27 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:27 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:27 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 06:27 PM |
| Surr: 4-Bromofluorobenzene     | 111    |      | 75-131         | %REC  | 1                   | 6/10/2010 06:27 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                   | 6/10/2010 06:27 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 15.1   |      | 4.95           | mg/Kg | 1                   | 6/9/2010 03:20 AM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                   | 6/9/2010 03:20 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-2 90'

Lab ID: 1006150-21

Collection Date: 6/3/2010 09:20 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 11:12 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 11:12 AM  |
| Surr: 2-Fluorobiphenyl         | 73.0   |      | 70-130         | %REC  | 1                   | 6/8/2010 11:12 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/12/2010 02:18 AM |
| Surr: 4-Bromofluorobenzene     | 87.9   |      | 70-130         | %REC  | 1                   | 6/12/2010 02:18 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:46 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:46 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 06:46 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 06:46 PM |
| Surr: 4-Bromofluorobenzene     | 111    |      | 75-131         | %REC  | 1                   | 6/10/2010 06:46 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                   | 6/10/2010 06:46 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 12.7   |      | 4.95           | mg/Kg | 1                   | 6/9/2010 11:57 AM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                   | 6/9/2010 11:57 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-2 100'

Collection Date: 6/3/2010 09:30 AM

Work Order: 1006150

Lab ID: 1006150-22

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 11:31 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 11:31 AM  |
| Surr: 2-Fluorobiphenyl         | 78.5   |      | 70-130         | %REC  | 1                   | 6/8/2010 11:31 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/12/2010 02:41 AM |
| Surr: 4-Bromofluorobenzene     | 83.3   |      | 70-130         | %REC  | 1                   | 6/12/2010 02:41 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:07 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:07 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:07 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 07:07 PM |
| Surr: 4-Bromofluorobenzene     | 108    |      | 75-131         | %REC  | 1                   | 6/10/2010 07:07 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                   | 6/10/2010 07:07 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 7.52   |      | 4.93           | mg/Kg | 1                   | 6/9/2010 01:02 PM  |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                   | 6/9/2010 01:02 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-2 110'

Collection Date: 6/3/2010 09:40 AM

Work Order: 1006150

Lab ID: 1006150-23

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 11:50 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 11:50 AM  |
| Surr: 2-Fluorobiphenyl         | 70.9   |      | 70-130         | %REC  | 1                   | 6/8/2010 11:50 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/12/2010 03:03 AM |
| Surr: 4-Bromofluorobenzene     | 88.3   |      | 70-130         | %REC  | 1                   | 6/12/2010 03:03 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:27 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:27 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:27 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 07:27 PM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 75-131         | %REC  | 1                   | 6/10/2010 07:27 PM |
| Surr: Trifluorotoluene         | 95.1   |      | 73-130         | %REC  | 1                   | 6/10/2010 07:27 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 22.1   |      | 4.99           | mg/Kg | 1                   | 6/9/2010 01:24 PM  |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                   | 6/9/2010 01:24 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-3 10'

Collection Date: 6/3/2010 01:10 PM

Work Order: 1006150

Lab ID: 1006150-24

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 12:10 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 12:10 PM  |
| Surr: 2-Fluorobiphenyl         | 71.5   |      | 70-130         | %REC  | 1                   | 6/8/2010 12:10 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/12/2010 03:26 AM |
| Surr: 4-Bromofluorobenzene     | 88.7   |      | 70-130         | %REC  | 1                   | 6/12/2010 03:26 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:46 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:46 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 07:46 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 07:46 PM |
| Surr: 4-Bromofluorobenzene     | 109    |      | 75-131         | %REC  | 1                   | 6/10/2010 07:46 PM |
| Surr: Trifluorotoluene         | 100    |      | 73-130         | %REC  | 1                   | 6/10/2010 07:46 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 7.12   |      | 4.92           | mg/Kg | 1                   | 6/9/2010 01:46 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                   | 6/9/2010 01:46 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-3 20'

Collection Date: 6/3/2010 01:20 PM

Work Order: 1006150

Lab ID: 1006150-25

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|--------------|--------------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                     |                    |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Motor Oil Range)          | ND     |      |              | 3.4 mg/Kg    | 1                   | 6/8/2010 12:29 PM  |
| Surr: 2-Fluorobiphenyl         | 70.5   |      | 70-130       | %REC         | 1                   | 6/8/2010 12:29 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                     |                    |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1                   | Analyst: KKP       |
| Surr: 4-Bromofluorobenzene     | 88.0   |      | 70-130       | %REC         | 1                   | 6/12/2010 03:49 AM |
| <b>BTEX</b>                    |        |      |              |              |                     |                    |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1                   | Analyst: KKP       |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1                   | 6/10/2010 08:47 PM |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1                   | 6/10/2010 08:47 PM |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1                   | 6/10/2010 08:47 PM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 75-131       | %REC         | 1                   | 6/10/2010 08:47 PM |
| Surr: Trifluorotoluene         | 97.1   |      | 73-130       | %REC         | 1                   | 6/10/2010 08:47 PM |
| <b>ANIONS</b>                  |        |      |              |              |                     |                    |
| Chloride                       | 5.65   |      | E300         | 4.96 mg/Kg   | Prep Date: 6/7/2010 | Analyst: IGF       |
| Surr: Selenate (surr)          | 103    |      | 85-115       | %REC         | 1                   | 6/9/2010 02:08 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company  
 Project: Lea Refining Soil Borings  
 Sample ID: CSB-3 30'  
 Collection Date: 6/3/2010 01:30 PM

Work Order: 1006150  
 Lab ID: 1006150-26  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 12:48 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 12:48 PM  |
| Surr: 2-Fluorobiphenyl         | 73.2   |      | 70-130         | %REC  | 1                   | 6/8/2010 12:48 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/14/2010 12:48 PM |
| Surr: 4-Bromofluorobenzene     | 92.2   |      | 70-130         | %REC  | 1                   | 6/14/2010 12:48 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 09:07 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 09:07 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 09:07 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 09:07 PM |
| Surr: 4-Bromofluorobenzene     | 98.1   |      | 75-131         | %REC  | 1                   | 6/10/2010 09:07 PM |
| Surr: Trifluorotoluene         | 93.1   |      | 73-130         | %REC  | 1                   | 6/10/2010 09:07 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 7.14   |      | 5.00           | mg/Kg | 1                   | 6/9/2010 02:29 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                   | 6/9/2010 02:29 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-3 40'

Collection Date: 6/3/2010 01:40 PM

Work Order: 1006150

Lab ID: 1006150-27

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 01:08 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 01:08 PM  |
| Surr: 2-Fluorobiphenyl         | 71.2   |      | 70-130         | %REC  | 1                   | 6/8/2010 01:08 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/14/2010 01:11 PM |
| Surr: 4-Bromofluorobenzene     | 94.0   |      | 70-130         | %REC  | 1                   | 6/14/2010 01:11 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 09:27 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 09:27 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 09:27 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 09:27 PM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 75-131         | %REC  | 1                   | 6/10/2010 09:27 PM |
| Surr: Trifluorotoluene         | 96.3   |      | 73-130         | %REC  | 1                   | 6/10/2010 09:27 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 10.4   |      | 4.94           | mg/Kg | 1                   | 6/9/2010 03:34 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                   | 6/9/2010 03:34 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-3 50'

Collection Date: 6/3/2010 01:45 PM

Work Order: 1006150

Lab ID: 1006150-28

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 01:27 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 01:27 PM  |
| Surr: 2-Fluorobiphenyl         | 75.0   |      | 70-130         | %REC  | 1                   | 6/8/2010 01:27 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/14/2010 01:34 PM |
| Surr: 4-Bromofluorobenzene     | 94.0   |      | 70-130         | %REC  | 1                   | 6/14/2010 01:34 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 09:47 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 09:47 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 09:47 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 09:47 PM |
| Surr: 4-Bromofluorobenzene     | 98.3   |      | 75-131         | %REC  | 1                   | 6/10/2010 09:47 PM |
| Surr: Trifluorotoluene         | 93.4   |      | 73-130         | %REC  | 1                   | 6/10/2010 09:47 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 7.68   |      | 4.97           | mg/Kg | 1                   | 6/9/2010 03:56 PM  |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                   | 6/9/2010 03:56 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-3 60'

Collection Date: 6/3/2010 01:55 PM

Work Order: 1006150

Lab ID: 1006150-29

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 01:47 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 01:47 PM  |
| Surr: 2-Fluorobiphenyl         | 75.0   |      | 70-130         | %REC  | 1                   | 6/8/2010 01:47 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/14/2010 01:57 PM |
| Surr: 4-Bromofluorobenzene     | 92.2   |      | 70-130         | %REC  | 1                   | 6/14/2010 01:57 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 11:26 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 11:26 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 11:26 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 11:26 PM |
| Surr: 4-Bromofluorobenzene     | 95.3   |      | 75-131         | %REC  | 1                   | 6/10/2010 11:26 PM |
| Surr: Trifluorotoluene         | 91.1   |      | 73-130         | %REC  | 1                   | 6/10/2010 11:26 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 8.61   |      | 4.91           | mg/Kg | 1                   | 6/9/2010 04:18 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                   | 6/9/2010 04:18 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-3 70'

Collection Date: 6/3/2010 02:00 PM

Work Order: 1006150

Lab ID: 1006150-30

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 03:23 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 03:23 PM  |
| Surr: 2-Fluorobiphenyl         | 75.3   |      | 70-130         | %REC  | 1                   | 6/8/2010 03:23 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/14/2010 02:20 PM |
| Surr: 4-Bromofluorobenzene     | 95.1   |      | 70-130         | %REC  | 1                   | 6/14/2010 02:20 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 11:46 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 11:46 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 11:46 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 11:46 PM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 75-131         | %REC  | 1                   | 6/10/2010 11:46 PM |
| Surr: Trifluorotoluene         | 93.3   |      | 73-130         | %REC  | 1                   | 6/10/2010 11:46 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 8.12   |      | 4.98           | mg/Kg | 1                   | 6/9/2010 04:39 PM  |
| Surr: Selenate (surr)          | 105    |      | 85-115         | %REC  | 1                   | 6/9/2010 04:39 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-3 80'

Lab ID: 1006150-32

Collection Date: 6/3/2010 02:10 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 06:18 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 06:18 PM  |
| Surr: 2-Fluorobiphenyl         | 72.1   |      | 70-130         | %REC  | 1                   | 6/8/2010 06:18 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/14/2010 04:01 PM |
| Surr: 4-Bromofluorobenzene     | 94.4   |      | 70-130         | %REC  | 1                   | 6/14/2010 04:01 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/11/2010 12:06 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/11/2010 12:06 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/11/2010 12:06 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/11/2010 12:06 AM |
| Surr: 4-Bromofluorobenzene     | 95.7   |      | 75-131         | %REC  | 1                   | 6/11/2010 12:06 AM |
| Surr: Trifluorotoluene         | 92.3   |      | 73-130         | %REC  | 1                   | 6/11/2010 12:06 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 8.34   |      | 4.99           | mg/Kg | 1                   | 6/9/2010 05:01 PM  |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                   | 6/9/2010 05:01 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: CSB-3 90'

Collection Date: 6/3/2010 02:20 PM

Work Order: 1006150

Lab ID: 1006150-33

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 06:37 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 06:37 PM  |
| Surr: 2-Fluorobiphenyl         | 76.8   |      | 70-130         | %REC  | 1                   | 6/8/2010 06:37 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/14/2010 04:24 PM |
| Surr: 4-Bromofluorobenzene     | 91.5   |      | 70-130         | %REC  | 1                   | 6/14/2010 04:24 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/11/2010 12:26 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/11/2010 12:26 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/11/2010 12:26 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/11/2010 12:26 AM |
| Surr: 4-Bromofluorobenzene     | 93.7   |      | 75-131         | %REC  | 1                   | 6/11/2010 12:26 AM |
| Surr: Trifluorotoluene         | 90.0   |      | 73-130         | %REC  | 1                   | 6/11/2010 12:26 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 7.83   |      | 4.99           | mg/Kg | 1                   | 6/9/2010 05:23 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                   | 6/9/2010 05:23 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-3 100'

Lab ID: 1006150-34

Collection Date: 6/3/2010 02:30 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 08:14 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 08:14 PM  |
| Surr: 2-Fluorobiphenyl         | 72.9   |      | 70-130         | %REC  | 1                   | 6/8/2010 08:14 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/14/2010 04:47 PM |
| Surr: 4-Bromofluorobenzene     | 91.8   |      | 70-130         | %REC  | 1                   | 6/14/2010 04:47 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/11/2010 12:46 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/11/2010 12:46 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/11/2010 12:46 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/11/2010 12:46 AM |
| Surr: 4-Bromofluorobenzene     | 94.1   |      | 75-131         | %REC  | 1                   | 6/11/2010 12:46 AM |
| Surr: Trifluorotoluene         | 92.6   |      | 73-130         | %REC  | 1                   | 6/11/2010 12:46 AM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 6.14   |      | 4.96           | mg/Kg | 1                   | 6/9/2010 05:45 PM  |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                   | 6/9/2010 05:45 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: CSB-3 110'

Lab ID: 1006150-35

Collection Date: 6/3/2010 02:40 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 08:53 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 08:53 PM  |
| Surr: 2-Fluorobiphenyl         | 82.7   |      | 70-130         | %REC  | 1                   | 6/8/2010 08:53 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/14/2010 05:10 PM |
| Surr: 4-Bromofluorobenzene     | 91.2   |      | 70-130         | %REC  | 1                   | 6/14/2010 05:10 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 05:06 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 05:06 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 05:06 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 05:06 PM |
| Surr: 4-Bromofluorobenzene     | 106    |      | 75-131         | %REC  | 1                   | 6/10/2010 05:06 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                   | 6/10/2010 05:06 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 26.5   |      | 4.99           | mg/Kg | 1                   | 6/9/2010 06:06 PM  |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                   | 6/9/2010 06:06 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 18-Jun-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1006150

Sample ID: Trip Blank 051710-27

Lab ID: 1006150-36

Collection Date: 6/3/2010

Matrix: WATER

| Analyses                   | Result | Qual | Report Limit   | Units | Dilution Factor | Date Analyzed     |
|----------------------------|--------|------|----------------|-------|-----------------|-------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b> |       |                 | Analyst: KKP      |
| Benzene                    | ND     |      | 0.0010         | mg/L  | 1               | 6/4/2010 10:18 PM |
| Toluene                    | ND     |      | 0.0010         | mg/L  | 1               | 6/4/2010 10:18 PM |
| Ethylbenzene               | ND     |      | 0.0010         | mg/L  | 1               | 6/4/2010 10:18 PM |
| Xylenes, Total             | ND     |      | 0.0030         | mg/L  | 1               | 6/4/2010 10:18 PM |
| Surr: 4-Bromofluorobenzene | 110    |      | 77-129         | %REC  | 1               | 6/4/2010 10:18 PM |
| Surr: Trifluorotoluene     | 108    |      | 75-130         | %REC  | 1               | 6/4/2010 10:18 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company

Work Order: 1006150

Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: 43488 Instrument ID FID-8 Method: SW8015M

MBLK Sample ID: FBLKS2-100607-43488 Units: mg/Kg Analysis Date: 6/8/2010 10:33 AM

Client ID: Run ID: FID-8\_100607A SeqNo: 1996993 Prep Date: 6/7/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.088  | 0.10 | 3.33    | 0             | 92.7 | 70-130        | 0             |      |           |      |

LCS Sample ID: FLCSS2-100607-43488 Units: mg/Kg Analysis Date: 6/8/2010 10:52 AM

Client ID: Run ID: FID-8\_100607A SeqNo: 1996994 Prep Date: 6/7/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 24.28  | 1.7  | 33.33   | 0             | 72.8 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 27.13  | 3.4  | 33.33   | 0             | 81.4 | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.149  | 0.10 | 3.33    | 0             | 94.6 | 70-130        | 0             |      |           |      |

MS Sample ID: 1006150-20BMS Units: mg/Kg Analysis Date: 6/8/2010 07:35 PM

Client ID: CSB-2 80' Run ID: FID-8\_100607A SeqNo: 1997009 Prep Date: 6/7/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 27.67  | 1.7  | 33.29   | 0             | 83.1 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 35.4   | 3.4  | 33.29   | 0.1206        | 106  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.13   | 0.10 | 3.326   | 0             | 94.1 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1006150-20BMSD Units: mg/Kg Analysis Date: 6/8/2010 07:55 PM

Client ID: CSB-2 80' Run ID: FID-8\_100607A SeqNo: 1997010 Prep Date: 6/7/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 30.43  | 1.7  | 33.32   | 0             | 91.3 | 70-130        | 27.67         | 9.49 | 30        |      |
| TPH (Motor Oil Range)  | 34.46  | 3.4  | 33.32   | 0.1206        | 103  | 70-130        | 35.4          | 2.68 | 30        |      |
| Surr: 2-Fluorobiphenyl | 2.503  | 0.10 | 3.329   | 0             | 75.2 | 70-130        | 3.13          | 22.3 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006150-01B | 1006150-02B | 1006150-03B |
| 1006150-04B | 1006150-05B | 1006150-06B |
| 1006150-07B | 1006150-08B | 1006150-09B |
| 1006150-10B | 1006150-11B | 1006150-12B |
| 1006150-13B | 1006150-14B | 1006150-15B |
| 1006150-16B | 1006150-17B | 1006150-18B |
| 1006150-19B | 1006150-20B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
Work Order: 1006150  
Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: 43490 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS3-100607-43490 Units: mg/Kg Analysis Date: 6/8/2010 10:33 AM

Client ID: Run ID: FID-7\_100607A SeqNo: 1996704 Prep Date: 6/7/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.028  | 0.10 | 3.33    | 0             | 90.9 | 70-130        | 0             |      |           |      |

LCS Sample ID: FLCSS3-100607-43490 Units: mg/Kg Analysis Date: 6/8/2010 10:52 AM

Client ID: Run ID: FID-7\_100607A SeqNo: 1996663 Prep Date: 6/7/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 32.89  | 1.7  | 33.33   | 0             | 98.7 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 36.07  | 3.4  | 33.33   | 0             | 108  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.752  | 0.10 | 3.33    | 0             | 113  | 70-130        | 0             |      |           |      |

MS Sample ID: 1006150-34BMS Units: mg/Kg Analysis Date: 6/8/2010 08:34 PM

Client ID: CSB-3 100' Run ID: FID-7\_100607A SeqNo: 1996694 Prep Date: 6/7/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 32.96  | 1.7  | 33.26   | 0             | 99.1 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 38.71  | 3.4  | 33.26   | 0.3238        | 115  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 2.904  | 0.10 | 3.323   | 0             | 87.4 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1006150-34BMSD Units: mg/Kg Analysis Date: 6/8/2010 08:53 PM

Client ID: CSB-3 100' Run ID: FID-7\_100607A SeqNo: 1996695 Prep Date: 6/7/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 27.33  | 1.7  | 33.23   | 0             | 82.2 | 70-130        | 32.96         | 18.7 | 30        |      |
| TPH (Motor Oil Range)  | 30.59  | 3.4  | 33.23   | 0.3238        | 91.1 | 70-130        | 38.71         | 23.4 | 30        |      |
| Surr: 2-Fluorobiphenyl | 2.582  | 0.10 | 3.32    | 0             | 77.8 | 70-130        | 2.904         | 11.7 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006150-21B | 1006150-22B | 1006150-23B |
| 1006150-24B | 1006150-25B | 1006150-26B |
| 1006150-27B | 1006150-28B | 1006150-29B |
| 1006150-30B | 1006150-32B | 1006150-33B |
| 1006150-34B | 1006150-35B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006150  
 Project: Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: R92013 Instrument ID BTEX3 Method: SW8021B

|                            |                                 |     |         |               |                |               |                                  |      |           |      |
|----------------------------|---------------------------------|-----|---------|---------------|----------------|---------------|----------------------------------|------|-----------|------|
| MBLK                       | Sample ID: BBLKW1-060410-R92013 |     |         |               | Units: µg/L    |               | Analysis Date: 6/4/2010 04:36 PM |      |           |      |
| Client ID:                 | Run ID: BTEX3_100604A           |     |         |               | SeqNo: 1983431 |               | Prep Date:                       |      | DF: 1     |      |
| Analyte                    | Result                          | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                    | %RPD | RPD Limit | Qual |
| Benzene                    | ND                              | 1.0 |         |               |                |               |                                  |      |           |      |
| Toluene                    | ND                              | 1.0 |         |               |                |               |                                  |      |           |      |
| Ethylbenzene               | ND                              | 1.0 |         |               |                |               |                                  |      |           |      |
| Xylenes, Total             | ND                              | 3.0 |         |               |                |               |                                  |      |           |      |
| Surr: 4-Bromofluorobenzene | 35.78                           | 1.0 | 30      | 0             | 119            | 77-129        | 0                                |      |           |      |
| Surr: Trifluorotoluene     | 35.33                           | 1.0 | 30      | 0             | 118            | 75-130        | 0                                |      |           |      |

|                            |                                 |     |         |               |                |               |                                  |      |           |      |
|----------------------------|---------------------------------|-----|---------|---------------|----------------|---------------|----------------------------------|------|-----------|------|
| MBLK                       | Sample ID: MEOHW1-060410-R92013 |     |         |               | Units: µg/L    |               | Analysis Date: 6/4/2010 04:56 PM |      |           |      |
| Client ID:                 | Run ID: BTEX3_100604A           |     |         |               | SeqNo: 1983432 |               | Prep Date:                       |      | DF: 1     |      |
| Analyte                    | Result                          | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                    | %RPD | RPD Limit | Qual |
| Benzene                    | ND                              | 1.0 |         |               |                |               |                                  |      |           |      |
| Toluene                    | ND                              | 1.0 |         |               |                |               |                                  |      |           |      |
| Ethylbenzene               | ND                              | 1.0 |         |               |                |               |                                  |      |           |      |
| Xylenes, Total             | ND                              | 3.0 |         |               |                |               |                                  |      |           |      |
| Surr: 4-Bromofluorobenzene | 35.3                            | 1.0 | 30      | 0             | 118            | 77-129        | 0                                |      |           |      |
| Surr: Trifluorotoluene     | 33.88                           | 1.0 | 30      | 0             | 113            | 75-130        | 0                                |      |           |      |

|                            |                                 |     |         |               |                |               |               |                                  |           |      |
|----------------------------|---------------------------------|-----|---------|---------------|----------------|---------------|---------------|----------------------------------|-----------|------|
| LCS                        | Sample ID: BLCSW1-060410-R92013 |     |         |               |                | Units: µg/L   |               | Analysis Date: 6/4/2010 02:41 PM |           |      |
| Client ID:                 | Run ID: BTEX3_100604A           |     |         |               | SeqNo: 1988340 |               | Prep Date:    |                                  | DF: 1     |      |
| Analyte                    | Result                          | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value | %RPD                             | RPD Limit | Qual |
| Benzene                    | 19.38                           | 1.0 | 20      | 0             | 96.9           | 77-126        | 0             |                                  |           |      |
| Toluene                    | 19.18                           | 1.0 | 20      | 0             | 95.9           | 80-124        | 0             |                                  |           |      |
| Ethylbenzene               | 19.59                           | 1.0 | 20      | 0             | 98             | 76-125        | 0             |                                  |           |      |
| Xylenes, Total             | 57.56                           | 3.0 | 60      | 0             | 95.9           | 79-124        | 0             |                                  |           |      |
| Surr: 4-Bromofluorobenzene | 34.36                           | 1.0 | 30      | 0             | 115            | 77-129        | 0             |                                  |           |      |
| Surr: Trifluorotoluene     | 33.47                           | 1.0 | 30      | 0             | 112            | 75-130        | 0             |                                  |           |      |

|                            |                          |     |         |               |                |               |                                  |      |           |      |
|----------------------------|--------------------------|-----|---------|---------------|----------------|---------------|----------------------------------|------|-----------|------|
| MS                         | Sample ID: 1006099-01AMS |     |         |               | Units: µg/L    |               | Analysis Date: 6/4/2010 09:19 PM |      |           |      |
| Client ID:                 | Run ID: BTEX3_100604A    |     |         |               | SeqNo: 1983442 |               | Prep Date:                       |      | DF: 10    |      |
| Analyte                    | Result                   | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                    | %RPD | RPD Limit | Qual |
| Benzene                    | 203.4                    | 10  | 200     | 0             | 102            | 77-126        | 0                                |      |           |      |
| Toluene                    | 201.2                    | 10  | 200     | 0             | 101            | 80-124        | 0                                |      |           |      |
| Ethylbenzene               | 199.8                    | 10  | 200     | 0             | 99.9           | 76-125        | 0                                |      |           |      |
| Xylenes, Total             | 598.2                    | 30  | 600     | 0             | 99.7           | 79-124        | 0                                |      |           |      |
| Surr: 4-Bromofluorobenzene | 350.7                    | 10  | 300     | 0             | 117            | 77-129        | 0                                |      |           |      |
| Surr: Trifluorotoluene     | 343                      | 10  | 300     | 0             | 114            | 75-130        | 0                                |      |           |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006150  
Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: R92013 Instrument ID BTEX3 Method: SW8021B

MSD Sample ID: 1006099-01AMSD Units: µg/L Analysis Date: 6/4/2010 09:39 PM

Client ID: Run ID: BTEX3\_100604A SeqNo: 1983443 Prep Date: DF: 10

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 197.7  | 10  | 200     | 0             | 98.9 | 77-126        | 203.4         | 2.84  | 20        |      |
| Toluene                    | 195.8  | 10  | 200     | 0             | 97.9 | 80-124        | 201.2         | 2.73  | 20        |      |
| Ethylbenzene               | 197.1  | 10  | 200     | 0             | 98.5 | 76-125        | 199.8         | 1.39  | 20        |      |
| Xylenes, Total             | 589.4  | 30  | 600     | 0             | 98.2 | 79-124        | 598.2         | 1.49  | 20        |      |
| Surr: 4-Bromofluorobenzene | 352.7  | 10  | 300     | 0             | 118  | 77-129        | 350.7         | 0.583 | 20        |      |
| Surr: Trifluorotoluene     | 350.3  | 10  | 300     | 0             | 117  | 75-130        | 343           | 2.1   | 20        |      |

The following samples were analyzed in this batch: 1006150-36A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006150  
 Project: Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: R92295 Instrument ID BTEX3 Method: SW8021B

| MBLK                       |        | Sample ID: BBLKS1-061010-R92295 |         |               |      | Units: µg/Kg   |               | Analysis Date: 6/9/2010 10:44 PM |           |       |
|----------------------------|--------|---------------------------------|---------|---------------|------|----------------|---------------|----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX3_100609B           |         |               |      | SeqNo: 1989983 |               | Prep Date:                       |           | DF: 1 |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                             | RPD Limit | Qual  |
| Benzene                    | ND     | 1.0                             |         |               |      |                |               |                                  |           |       |
| Toluene                    | ND     | 1.0                             |         |               |      |                |               |                                  |           |       |
| Ethylbenzene               | ND     | 1.0                             |         |               |      |                |               |                                  |           |       |
| Xylenes, Total             | ND     | 3.0                             |         |               |      |                |               |                                  |           |       |
| Surr: 4-Bromofluorobenzene | 29.32  | 1.0                             | 30      | 0             | 97.7 | 75-131         | 0             |                                  |           |       |
| Surr: Trifluorotoluene     | 29.07  | 1.0                             | 30      | 0             | 96.9 | 73-130         | 0             |                                  |           |       |

| LCS                        |        | Sample ID: BLCSS1-061010-R92295 |         |               |      | Units: µg/Kg   |               | Analysis Date: 6/9/2010 10:04 PM |           |       |
|----------------------------|--------|---------------------------------|---------|---------------|------|----------------|---------------|----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX3_100609B           |         |               |      | SeqNo: 1989982 |               | Prep Date:                       |           | DF: 1 |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                             | RPD Limit | Qual  |
| Benzene                    | 20.28  | 1.0                             | 20      | 0             | 101  | 74-129         | 0             |                                  |           |       |
| Toluene                    | 21.36  | 1.0                             | 20      | 0             | 107  | 75-128         | 0             |                                  |           |       |
| Ethylbenzene               | 20.91  | 1.0                             | 20      | 0             | 105  | 73-127         | 0             |                                  |           |       |
| Xylenes, Total             | 63.96  | 3.0                             | 60      | 0             | 107  | 74-127         | 0             |                                  |           |       |
| Surr: 4-Bromofluorobenzene | 31.48  | 1.0                             | 30      | 0             | 105  | 75-131         | 0             |                                  |           |       |
| Surr: Trifluorotoluene     | 29.03  | 1.0                             | 30      | 0             | 96.8 | 73-130         | 0             |                                  |           |       |

| MS                         |        | Sample ID: 1006149-10AMS |         |               |      | Units: µg/Kg   |               | Analysis Date: 6/9/2010 11:44 PM |           |       |
|----------------------------|--------|--------------------------|---------|---------------|------|----------------|---------------|----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX3_100609B    |         |               |      | SeqNo: 1989987 |               | Prep Date:                       |           | DF: 1 |
| Analyte                    | Result | PQL                      | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                             | RPD Limit | Qual  |
| Benzene                    | 20.78  | 1.0                      | 20      | 0             | 104  | 74-129         | 0             |                                  |           |       |
| Toluene                    | 21.38  | 1.0                      | 20      | 1.279         | 100  | 75-128         | 0             |                                  |           |       |
| Ethylbenzene               | 21.44  | 1.0                      | 20      | 0             | 107  | 73-127         | 0             |                                  |           |       |
| Xylenes, Total             | 65.23  | 3.0                      | 60      | 0             | 109  | 74-127         | 0             |                                  |           |       |
| Surr: 4-Bromofluorobenzene | 31.64  | 1.0                      | 30      | 0             | 105  | 75-131         | 0             |                                  |           |       |
| Surr: Trifluorotoluene     | 29.62  | 1.0                      | 30      | 0             | 98.7 | 73-130         | 0             |                                  |           |       |

| MSD                        |        | Sample ID: 1006149-10AMSD |         |               |      | Units: µg/Kg   |               | Analysis Date: 6/10/2010 12:04 AM |           |       |
|----------------------------|--------|---------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX3_100609B     |         |               |      | SeqNo: 1989989 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                       | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | 20.97  | 1.0                       | 20      | 0             | 105  | 74-129         | 20.78         | 0.905                             | 30        |       |
| Toluene                    | 21.41  | 1.0                       | 20      | 1.279         | 101  | 75-128         | 21.38         | 0.156                             | 30        |       |
| Ethylbenzene               | 21.2   | 1.0                       | 20      | 0             | 106  | 73-127         | 21.44         | 1.12                              | 30        |       |
| Xylenes, Total             | 64.13  | 3.0                       | 60      | 0             | 107  | 74-127         | 65.23         | 1.7                               | 30        |       |
| Surr: 4-Bromofluorobenzene | 31.71  | 1.0                       | 30      | 0             | 106  | 75-131         | 31.64         | 0.209                             | 30        |       |
| Surr: Trifluorotoluene     | 30.01  | 1.0                       | 30      | 0             | 100  | 73-130         | 29.62         | 1.3                               | 30        |       |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006150  
Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: R92295

Instrument ID BTEX3

Method: SW8021B

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006150-01A | 1006150-02A | 1006150-03A |
| 1006150-04A | 1006150-05A | 1006150-06A |
| 1006150-07A | 1006150-08A | 1006150-09A |
| 1006150-10A | 1006150-11A | 1006150-12A |
| 1006150-13A | 1006150-14A | 1006150-15A |
| 1006150-16A |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006150  
 Project: Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: R92478 Instrument ID BTEX3 Method: SW8021B

| <b>MBLK</b>                |        | Sample ID: BBLKS1-061010-R92478 |         |               |      | Units: µg/Kg   |               | Analysis Date: 6/10/2010 10:54 AM |           |       |
|----------------------------|--------|---------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX3_100610A           |         |               |      | SeqNo: 1993427 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Toluene                    | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Ethylbenzene               | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Xylenes, Total             | ND     | 3.0                             |         |               |      |                |               |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 30.51  | 1.0                             | 30      | 0             | 102  | 75-131         | 0             |                                   |           |       |
| Surr: Trifluorotoluene     | 29.73  | 1.0                             | 30      | 0             | 99.1 | 73-130         | 0             |                                   |           |       |

| <b>LCS</b>                 |        | Sample ID: BLCSS1-061010-R92478 |         |               |      | Units: µg/Kg   |               | Analysis Date: 6/10/2010 09:48 AM |           |       |
|----------------------------|--------|---------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX3_100610A           |         |               |      | SeqNo: 1993424 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | 21.11  | 1.0                             | 20      | 0             | 106  | 74-129         | 0             |                                   |           |       |
| Toluene                    | 21.71  | 1.0                             | 20      | 0             | 109  | 75-128         | 0             |                                   |           |       |
| Ethylbenzene               | 21.54  | 1.0                             | 20      | 0             | 108  | 73-127         | 0             |                                   |           |       |
| Xylenes, Total             | 65.37  | 3.0                             | 60      | 0             | 109  | 74-127         | 0             |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 31.82  | 1.0                             | 30      | 0             | 106  | 75-131         | 0             |                                   |           |       |
| Surr: Trifluorotoluene     | 30.36  | 1.0                             | 30      | 0             | 101  | 73-130         | 0             |                                   |           |       |

| <b>MS</b>                  |        | Sample ID: 1006203-10AMS |         |               |      | Units: µg/Kg   |               | Analysis Date: 6/10/2010 03:34 PM |           |       |
|----------------------------|--------|--------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX3_100610A    |         |               |      | SeqNo: 1993434 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                      | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | 23.28  | 1.0                      | 20      | 0             | 116  | 74-129         | 0             |                                   |           |       |
| Toluene                    | 23.73  | 1.0                      | 20      | 0.9177        | 114  | 75-128         | 0             |                                   |           |       |
| Ethylbenzene               | 22.98  | 1.0                      | 20      | 0             | 115  | 73-127         | 0             |                                   |           |       |
| Xylenes, Total             | 70.1   | 3.0                      | 60      | 0             | 117  | 74-127         | 0             |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 33.8   | 1.0                      | 30      | 0             | 113  | 75-131         | 0             |                                   |           |       |
| Surr: Trifluorotoluene     | 31.89  | 1.0                      | 30      | 0             | 106  | 73-130         | 0             |                                   |           |       |

| <b>MSD</b>                 |        | Sample ID: 1006203-10AMSD |         |               |      | Units: µg/Kg   |               | Analysis Date: 6/10/2010 03:54 PM |           |       |
|----------------------------|--------|---------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX3_100610A     |         |               |      | SeqNo: 1993435 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                       | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | 21.99  | 1.0                       | 20      | 0             | 110  | 74-129         | 23.28         | 5.69                              | 30        |       |
| Toluene                    | 22.81  | 1.0                       | 20      | 0.9177        | 109  | 75-128         | 23.73         | 3.94                              | 30        |       |
| Ethylbenzene               | 22.7   | 1.0                       | 20      | 0             | 114  | 73-127         | 22.98         | 1.24                              | 30        |       |
| Xylenes, Total             | 68.91  | 3.0                       | 60      | 0             | 115  | 74-127         | 70.1          | 1.71                              | 30        |       |
| Surr: 4-Bromofluorobenzene | 34     | 1.0                       | 30      | 0             | 113  | 75-131         | 33.8          | 0.594                             | 30        |       |
| Surr: Trifluorotoluene     | 31.9   | 1.0                       | 30      | 0             | 106  | 73-130         | 31.89         | 0.0287                            | 30        |       |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006150  
Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: **R92478** Instrument ID **BTEX3** Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006150-17A | 1006150-18A | 1006150-19A |
| 1006150-20A | 1006150-21A | 1006150-22A |
| 1006150-23A | 1006150-24A | 1006150-25A |
| 1006150-26A | 1006150-27A | 1006150-28A |
| 1006150-35A |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1006150  
**Project:** Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: **R92501**      Instrument ID **BTEX3**      Method: **SW8021B**

| <b>MBLK</b>                |        | Sample ID: <b>BBLKS2-061010-R92501</b> |         |               |      | Units: <b>µg/Kg</b>   |               | Analysis Date: <b>6/10/2010 11:07 PM</b> |           |              |
|----------------------------|--------|----------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| Client ID:                 |        | Run ID: <b>BTEX3_100610B</b>           |         |               |      | SeqNo: <b>1993485</b> |               | Prep Date:                               |           | DF: <b>1</b> |
| Analyte                    | Result | PQL                                    | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Benzene                    | ND     | 1.0                                    |         |               |      |                       |               |                                          |           |              |
| Toluene                    | ND     | 1.0                                    |         |               |      |                       |               |                                          |           |              |
| Ethylbenzene               | ND     | 1.0                                    |         |               |      |                       |               |                                          |           |              |
| Xylenes, Total             | ND     | 3.0                                    |         |               |      |                       |               |                                          |           |              |
| Surr: 4-Bromofluorobenzene | 28.61  | 1.0                                    | 30      | 0             | 95.4 | 75-131                | 0             |                                          |           |              |
| Surr: Trifluorotoluene     | 27.41  | 1.0                                    | 30      | 0             | 91.4 | 73-130                | 0             |                                          |           |              |

| <b>LCS</b>                 |        | Sample ID: <b>BLCSS2-061010-R92501</b> |         |               |      | Units: <b>µg/Kg</b>   |               | Analysis Date: <b>6/10/2010 10:27 PM</b> |           |              |
|----------------------------|--------|----------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| Client ID:                 |        | Run ID: <b>BTEX3_100610B</b>           |         |               |      | SeqNo: <b>1993484</b> |               | Prep Date:                               |           | DF: <b>1</b> |
| Analyte                    | Result | PQL                                    | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Benzene                    | 19.55  | 1.0                                    | 20      | 0             | 97.7 | 74-129                | 0             |                                          |           |              |
| Toluene                    | 20.2   | 1.0                                    | 20      | 0             | 101  | 75-128                | 0             |                                          |           |              |
| Ethylbenzene               | 19.8   | 1.0                                    | 20      | 0             | 99   | 73-127                | 0             |                                          |           |              |
| Xylenes, Total             | 60.49  | 3.0                                    | 60      | 0             | 101  | 74-127                | 0             |                                          |           |              |
| Surr: 4-Bromofluorobenzene | 29.49  | 1.0                                    | 30      | 0             | 98.3 | 75-131                | 0             |                                          |           |              |
| Surr: Trifluorotoluene     | 28.28  | 1.0                                    | 30      | 0             | 94.3 | 73-130                | 0             |                                          |           |              |

| <b>MS</b>                    |        | Sample ID: <b>1006150-34AMS</b> |         |               |      | Units: <b>µg/Kg</b>   |               | Analysis Date: <b>6/11/2010 01:06 AM</b> |           |              |
|------------------------------|--------|---------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| Client ID: <b>CSB-3 100'</b> |        | Run ID: <b>BTEX3_100610B</b>    |         |               |      | SeqNo: <b>1993502</b> |               | Prep Date:                               |           | DF: <b>1</b> |
| Analyte                      | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Benzene                      | 19.28  | 1.0                             | 20      | 0             | 96.4 | 74-129                | 0             |                                          |           |              |
| Toluene                      | 20.61  | 1.0                             | 20      | 0             | 103  | 75-128                | 0             |                                          |           |              |
| Ethylbenzene                 | 19.62  | 1.0                             | 20      | 0             | 98.1 | 73-127                | 0             |                                          |           |              |
| Xylenes, Total               | 59.35  | 3.0                             | 60      | 0             | 98.9 | 74-127                | 0             |                                          |           |              |
| Surr: 4-Bromofluorobenzene   | 28.65  | 1.0                             | 30      | 0             | 95.5 | 75-131                | 0             |                                          |           |              |
| Surr: Trifluorotoluene       | 28.6   | 1.0                             | 30      | 0             | 95.3 | 73-130                | 0             |                                          |           |              |

| <b>MSD</b>                   |        | Sample ID: <b>1006150-34AMSD</b> |         |               |      | Units: <b>µg/Kg</b>   |               | Analysis Date: <b>6/11/2010 01:26 AM</b> |           |              |
|------------------------------|--------|----------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| Client ID: <b>CSB-3 100'</b> |        | Run ID: <b>BTEX3_100610B</b>     |         |               |      | SeqNo: <b>1993505</b> |               | Prep Date:                               |           | DF: <b>1</b> |
| Analyte                      | Result | PQL                              | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Benzene                      | 19.38  | 1.0                              | 20      | 0             | 96.9 | 74-129                | 19.28         | 0.525                                    | 30        |              |
| Toluene                      | 20.29  | 1.0                              | 20      | 0             | 101  | 75-128                | 20.61         | 1.59                                     | 30        |              |
| Ethylbenzene                 | 19.39  | 1.0                              | 20      | 0             | 96.9 | 73-127                | 19.62         | 1.18                                     | 30        |              |
| Xylenes, Total               | 58.51  | 3.0                              | 60      | 0             | 97.5 | 74-127                | 59.35         | 1.43                                     | 30        |              |
| Surr: 4-Bromofluorobenzene   | 27.63  | 1.0                              | 30      | 0             | 92.1 | 75-131                | 28.65         | 3.62                                     | 30        |              |
| Surr: Trifluorotoluene       | 28.49  | 1.0                              | 30      | 0             | 95   | 73-130                | 28.6          | 0.39                                     | 30        |              |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
Work Order: 1006150  
Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: R92501

Instrument ID BTEX3

Method: SW8021B

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006150-29A | 1006150-30A | 1006150-32A |
| 1006150-33A | 1006150-34A |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006150  
 Project: Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: R92600 Instrument ID FID-9 Method: SW8015

|                            |                                |        |         |               |                |               |                                   |      |           |      |
|----------------------------|--------------------------------|--------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| MBLK                       | Sample ID: GBLKS-061010-R92600 |        |         |               | Units: mg/Kg   |               | Analysis Date: 6/10/2010 05:51 PM |      |           |      |
| Client ID:                 | Run ID: FID-9_100610D          |        |         |               | SeqNo: 1995719 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                         | PQL    | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | ND                             | 0.050  |         |               |                |               |                                   |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.0872                         | 0.0050 | 0.1     | 0             | 87.2           | 70-130        | 0                                 |      |           |      |

|                            |                                |        |         |               |                |               |               |                                   |           |      |
|----------------------------|--------------------------------|--------|---------|---------------|----------------|---------------|---------------|-----------------------------------|-----------|------|
| LCS                        | Sample ID: GLCSS-061010-R92600 |        |         |               |                | Units: mg/Kg  |               | Analysis Date: 6/10/2010 05:04 PM |           |      |
| Client ID:                 | Run ID: FID-9_100610D          |        |         |               | SeqNo: 1995717 |               | Prep Date:    |                                   | DF: 1     |      |
| Analyte                    | Result                         | PQL    | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value | %RPD                              | RPD Limit | Qual |
| Gasoline Range Organics    | 1.081                          | 0.050  | 1       | 0             | 108            | 70-130        | 0             |                                   |           |      |
| Surr: 4-Bromofluorobenzene | 0.08969                        | 0.0050 | 0.1     | 0             | 89.7           | 70-130        | 0             |                                   |           |      |

|                            |                                 |        |         |               |                |               |               |                                   |           |      |
|----------------------------|---------------------------------|--------|---------|---------------|----------------|---------------|---------------|-----------------------------------|-----------|------|
| LCSD                       | Sample ID: GLCSDS-061010-R92600 |        |         |               |                | Units: mg/Kg  |               | Analysis Date: 6/10/2010 05:28 PM |           |      |
| Client ID:                 | Run ID: FID-9_100610D           |        |         |               | SeqNo: 1995718 |               | Prep Date:    |                                   | DF: 1     |      |
| Analyte                    | Result                          | PQL    | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value | %RPD                              | RPD Limit | Qual |
| Gasoline Range Organics    | 1.161                           | 0.050  | 1       | 0             | 116            | 70-130        | 1.081         | 7.17                              | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.09016                         | 0.0050 | 0.1     | 0             | 90.2           | 70-130        | 0.08969       | 0.527                             | 30        |      |

|                            |                          |        |         |                |              |               |                                   |       |           |      |
|----------------------------|--------------------------|--------|---------|----------------|--------------|---------------|-----------------------------------|-------|-----------|------|
| MS                         | Sample ID: 1006149-10BMS |        |         |                | Units: mg/Kg |               | Analysis Date: 6/10/2010 11:13 PM |       |           |      |
| Client ID:                 | Run ID: FID-9_100610D    |        |         | SeqNo: 1995732 |              | Prep Date:    |                                   | DF: 1 |           |      |
| Analyte                    | Result                   | PQL    | SPK Val | SPK Ref Value  | %REC         | Control Limit | RPD Ref Value                     | %RPD  | RPD Limit | Qual |
| Gasoline Range Organics    | 1.103                    | 0.050  | 1       | 0              | 110          | 70-130        | 0                                 |       |           |      |
| Surr: 4-Bromofluorobenzene | 0.08433                  | 0.0050 | 0.1     | 0              | 84.3         | 70-130        | 0                                 |       |           |      |

|                            |                           |        |         |               |                |               |                                   |      |           |      |
|----------------------------|---------------------------|--------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| MSD                        | Sample ID: 1006149-10BMSD |        |         |               | Units: mg/Kg   |               | Analysis Date: 6/10/2010 11:36 PM |      |           |      |
| Client ID:                 | Run ID: FID-9_100610D     |        |         |               | SeqNo: 1995733 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                    | PQL    | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | 1.092                     | 0.050  | 1       | 0             | 109            | 70-130        | 1.103                             | 0.97 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.08751                   | 0.0050 | 0.1     | 0             | 87.5           | 70-130        | 0.08433                           | 3.7  | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006150-01B | 1006150-02B | 1006150-03B |
| 1006150-04B | 1006150-05B | 1006150-06B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006150  
Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: R92601 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-061110-R92601 Units: mg/Kg Analysis Date: 6/11/2010 06:14 PM

Client ID: Run ID: FID-9\_100611C SeqNo: 1995793 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND      | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08088 | 0.0050 | 0.1     | 0             | 80.9 | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-061110-R92601 Units: mg/Kg Analysis Date: 6/11/2010 05:26 PM

Client ID: Run ID: FID-9\_100611C SeqNo: 1995791 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.117   | 0.050  | 1       | 0             | 112  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08903 | 0.0050 | 0.1     | 0             | 89   | 70-130        | 0             |      |           |      |

LCSD Sample ID: GLCSDS-061110-R92601 Units: mg/Kg Analysis Date: 6/11/2010 05:49 PM

Client ID: Run ID: FID-9\_100611C SeqNo: 1995792 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Gasoline Range Organics    | 0.9457  | 0.050  | 1       | 0             | 94.6 | 70-130        | 1.117         | 16.6  | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.08829 | 0.0050 | 0.1     | 0             | 88.3 | 70-130        | 0.08903       | 0.832 | 30        |      |

MS Sample ID: 1006381-03ZMS Units: mg/Kg Analysis Date: 6/11/2010 07:05 PM

Client ID: Run ID: FID-9\_100611C SeqNo: 1995795 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.097   | 0.050  | 1       | 0             | 110  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08854 | 0.0050 | 0.1     | 0             | 88.5 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1006381-03ZMSD Units: mg/Kg Analysis Date: 6/11/2010 07:27 PM

Client ID: Run ID: FID-9\_100611C SeqNo: 1995796 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Gasoline Range Organics    | 1.093   | 0.050  | 1       | 0             | 109  | 70-130        | 1.097         | 0.408 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.08382 | 0.0050 | 0.1     | 0             | 83.8 | 70-130        | 0.08854       | 5.48  | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006150-07B | 1006150-08B | 1006150-09B |
| 1006150-10B | 1006150-11B | 1006150-12B |
| 1006150-13B | 1006150-14B | 1006150-15B |
| 1006150-16B | 1006150-17B | 1006150-18B |
| 1006150-19B | 1006150-20B | 1006150-21B |
| 1006150-22B | 1006150-23B | 1006150-24B |
| 1006150-25B |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006150  
 Project: Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: R92638 Instrument ID FID-9 Method: SW8015

|                            |                                |        |         |               |                |               |                                   |      |           |      |
|----------------------------|--------------------------------|--------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| MBLK                       | Sample ID: GBLKS-061410-R92638 |        |         |               | Units: mg/Kg   |               | Analysis Date: 6/14/2010 12:25 PM |      |           |      |
| Client ID:                 | Run ID: FID-9_100614A          |        |         |               | SeqNo: 1996780 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                         | PQL    | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | ND                             | 0.050  |         |               |                |               |                                   |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08757                        | 0.0050 | 0.1     | 0             | 87.6           | 70-130        | 0                                 |      |           |      |

|                            |                                |        |         |               |                |               |                                   |      |           |      |
|----------------------------|--------------------------------|--------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| LCS                        | Sample ID: GLCSS-061410-R92638 |        |         |               | Units: mg/Kg   |               | Analysis Date: 6/14/2010 11:39 AM |      |           |      |
| Client ID:                 | Run ID: FID-9_100614A          |        |         |               | SeqNo: 1996778 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                         | PQL    | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | 1.118                          | 0.050  | 1       | 0             | 112            | 70-130        | 0                                 |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.09358                        | 0.0050 | 0.1     | 0             | 93.6           | 70-130        | 0                                 |      |           |      |

|                            |                                 |        |         |               |                |               |                                   |      |           |      |
|----------------------------|---------------------------------|--------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| LCSD                       | Sample ID: GLCSDS-061410-R92638 |        |         |               | Units: mg/Kg   |               | Analysis Date: 6/14/2010 12:02 PM |      |           |      |
| Client ID:                 | Run ID: FID-9_100614A           |        |         |               | SeqNo: 1996779 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                          | PQL    | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | 1.116                           | 0.050  | 1       | 0             | 112            | 70-130        | 1.118                             | 0.19 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.09459                         | 0.0050 | 0.1     | 0             | 94.6           | 70-130        | 0.09358                           | 1.07 | 30        |      |

|                            |                          |                       |         |               |                |               |                                   |      |           |      |
|----------------------------|--------------------------|-----------------------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| MS                         | Sample ID: 1006150-30BMS |                       |         |               | Units: mg/Kg   |               | Analysis Date: 6/14/2010 02:43 PM |      |           |      |
| Client ID: CSB-3 70'       |                          | Run ID: FID-9_100614A |         |               | SeqNo: 1996786 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                   | PQL                   | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | 1.156                    | 0.050                 | 1       | 0             | 116            | 70-130        | 0                                 |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.09492                  | 0.0050                | 0.1     | 0             | 94.9           | 70-130        | 0                                 |      |           |      |

|                            |                           |                       |         |               |                |               |                                   |      |           |      |
|----------------------------|---------------------------|-----------------------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| MSD                        | Sample ID: 1006150-30BMSD |                       |         |               | Units: mg/Kg   |               | Analysis Date: 6/14/2010 03:06 PM |      |           |      |
| Client ID: CSB-3 70'       |                           | Run ID: FID-9_100614A |         |               | SeqNo: 1996787 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                    | PQL                   | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | 1.145                     | 0.050                 | 1       | 0             | 115            | 70-130        | 1.156                             | 0.92 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.09321                   | 0.0050                | 0.1     | 0             | 93.2           | 70-130        | 0.09492                           | 1.82 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006150-26B | 1006150-27B | 1006150-28B |
| 1006150-29B | 1006150-30B | 1006150-32B |
| 1006150-33B | 1006150-34B | 1006150-35B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006150  
 Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: 43544 Instrument ID ICS3K2 Method: E300

MBLK Sample ID: WBLKS2-060710-43544 Units: mg/Kg Analysis Date: 6/8/2010 02:07 PM

Client ID: Run ID: ICS3K2\_100608A SeqNo: 1988887 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 3.49   | 5.0 |         |               |      |               |               |      |           | J    |
| Surr: Selenate (surr) | 51.8   | 1.0 | 50      | 0             | 104  | 85-115        | 0             |      |           |      |

LCS Sample ID: WLCSS2-060710-43544 Units: mg/Kg Analysis Date: 6/8/2010 02:28 PM

Client ID: Run ID: ICS3K2\_100608A SeqNo: 1988889 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 195.7  | 5.0 | 200     | 0             | 97.9 | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 49.65  | 1.0 | 50      | 0             | 99.3 | 85-115        | 0             |      |           |      |

MS Sample ID: 1006150-01BMS Units: mg/Kg Analysis Date: 6/8/2010 06:39 PM

Client ID: CSB-1 1-2' Run ID: ICS3K2\_100608A SeqNo: 1988891 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 303.9  | 5.0 | 99.8    | 207.7         | 96.4 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 51.45  | 1.0 | 49.9    | 0             | 103  | 80-120        | 0             |      |           |      |

MS Sample ID: 1006150-20BMS Units: mg/Kg Analysis Date: 6/9/2010 03:42 AM

Client ID: CSB-2 80' Run ID: ICS3K2\_100608A SeqNo: 1988925 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 110.6  | 5.0  | 99.01   | 15.06         | 96.5 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 50.26  | 0.99 | 49.5    | 0             | 102  | 80-120        | 0             |      |           |      |

MSD Sample ID: 1006150-01BMSD Units: mg/Kg Analysis Date: 6/8/2010 07:01 PM

Client ID: CSB-1 1-2' Run ID: ICS3K2\_100608A SeqNo: 1988893 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD   | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|--------|-----------|------|
| Chloride              | 303.6  | 5.0 | 99.8    | 207.7         | 96.1 | 75-125        | 303.9         | 0.0986 | 20        |      |
| Surr: Selenate (surr) | 51.63  | 1.0 | 49.9    | 0             | 103  | 80-120        | 51.45         | 0.349  | 20        |      |

MSD Sample ID: 1006150-20BMSD Units: mg/Kg Analysis Date: 6/9/2010 04:03 AM

Client ID: CSB-2 80' Run ID: ICS3K2\_100608A SeqNo: 1988926 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Chloride              | 110.9  | 5.0  | 99.01   | 15.06         | 96.8 | 75-125        | 110.6         | 0.188 | 20        |      |
| Surr: Selenate (surr) | 50.44  | 0.99 | 49.5    | 0             | 102  | 80-120        | 50.26         | 0.354 | 20        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1006150  
**Project:** Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: 43544

Instrument ID ICS3K2

Method: E300

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006150-01B | 1006150-02B | 1006150-03B |
| 1006150-04B | 1006150-05B | 1006150-06B |
| 1006150-07B | 1006150-08B | 1006150-09B |
| 1006150-10B | 1006150-11B | 1006150-12B |
| 1006150-13B | 1006150-14B | 1006150-15B |
| 1006150-16B | 1006150-17B | 1006150-18B |
| 1006150-19B | 1006150-20B |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006150  
 Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: 43545 Instrument ID ICS3000 Method: E300

MBLK Sample ID: WBLKS3-060710-43545 Units: mg/Kg Analysis Date: 6/9/2010 11:14 AM  
 Client ID: Run ID: ICS3000\_100609A SeqNo: 1989136 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Surr: Selenate (surr) | 56.55  | 1.0 | 50      | 0             | 113  | 85-115        | 0             |      |           |      |

LCS Sample ID: WLCSS3-060710-43545 Units: mg/Kg Analysis Date: 6/9/2010 11:36 AM  
 Client ID: Run ID: ICS3000\_100609A SeqNo: 1989137 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 201.5  | 5.0 | 200     | 0             | 101  | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 56.01  | 1.0 | 50      | 0             | 112  | 85-115        | 0             |      |           |      |

MS Sample ID: 1006150-21BMS Units: mg/Kg Analysis Date: 6/9/2010 12:19 PM  
 Client ID: CSB-2 90' Run ID: ICS3000\_100609A SeqNo: 1989140 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 109.2  | 5.0  | 99.01   | 12.65         | 97.5 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 51.12  | 0.99 | 49.5    | 0             | 103  | 80-120        | 0             |      |           |      |

MS Sample ID: 1006150-35BMS Units: mg/Kg Analysis Date: 6/9/2010 06:28 PM  
 Client ID: CSB-3 110' Run ID: ICS3000\_100609A SeqNo: 1989158 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 124.5  | 5.0 | 99.8    | 26.47         | 98.3 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 51.31  | 1.0 | 49.9    | 0             | 103  | 80-120        | 0             |      |           |      |

MSD Sample ID: 1006150-21BMSD Units: mg/Kg Analysis Date: 6/9/2010 12:41 PM  
 Client ID: CSB-2 90' Run ID: ICS3000\_100609A SeqNo: 1989142 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Chloride              | 109    | 5.0  | 99.01   | 12.65         | 97.3 | 75-125        | 109.2         | 0.154 | 20        |      |
| Surr: Selenate (surr) | 48.06  | 0.99 | 49.5    | 0             | 97.1 | 80-120        | 51.12         | 6.17  | 20        |      |

MSD Sample ID: 1006150-35BMSD Units: mg/Kg Analysis Date: 6/9/2010 06:50 PM  
 Client ID: CSB-3 110' Run ID: ICS3000\_100609A SeqNo: 1989159 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD   | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|--------|-----------|------|
| Chloride              | 124.4  | 5.0 | 99.8    | 26.47         | 98.1 | 75-125        | 124.5         | 0.112  | 20        |      |
| Surr: Selenate (surr) | 51.28  | 1.0 | 49.9    | 0             | 103  | 80-120        | 51.31         | 0.0584 | 20        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1006150  
**Project:** Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: 43545

Instrument ID ICS3000

Method: E300

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006150-21B | 1006150-22B | 1006150-23B |
| 1006150-24B | 1006150-25B | 1006150-26B |
| 1006150-27B | 1006150-28B | 1006150-29B |
| 1006150-30B | 1006150-32B | 1006150-33B |
| 1006150-34B | 1006150-35B |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



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Date: 18-Jun-10

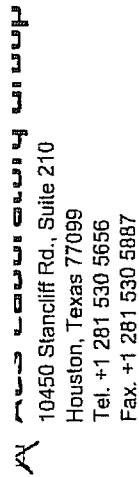
**Client:** Navajo Refining Company  
**Project:** Lea Refining Soil Borings  
**WorkOrder:** 1006150

## QUALIFIERS, ACRONYMS, UNITS

| <u>Qualifier</u> | <u>Description</u>                                                        |
|------------------|---------------------------------------------------------------------------|
| *                | Value exceeds Regulatory Limit                                            |
| a                | Not accredited                                                            |
| B                | Analyte detected in the associated Method Blank above the Reporting Limit |
| E                | Value above quantitation range                                            |
| H                | Analyzed outside of Holding Time                                          |
| J                | Analyte detected below quantitation limit                                 |
| M                | Manually integrated, see raw data for justification                       |
| n                | Not offered for accreditation                                             |
| ND               | Not Detected at the Reporting Limit                                       |
| O                | Sample amount is > 4 times amount spiked                                  |
| P                | Dual Column results percent difference > 40%                              |
| R                | RPD above laboratory control limit                                        |
| S                | Spike Recovery outside laboratory control limits                          |
| U                | Analyzed but not detected above the MDL                                   |

| <u>Acronym</u> | <u>Description</u>                  |
|----------------|-------------------------------------|
| DUP            | Method Duplicate                    |
| LCS            | Laboratory Control Sample           |
| LCSD           | Laboratory Control Sample Duplicate |
| MBLK           | Method Blank                        |
| MDL            | Method Detection Limit              |
| MQL            | Method Quantitation Limit           |
| MS             | Matrix Spike                        |
| MSD            | Matrix Spike Duplicate              |
| PDS            | Post Digestion Spike                |
| PQL            | Practical Quantitation Limit        |
| SD             | Serial Dilution                     |
| SDL            | Sample Detection Limit              |
| TRRP           | Texas Risk Reduction Program        |

| <u>Units Reported</u> | <u>Description</u>      |
|-----------------------|-------------------------|
| mg/Kg                 | Milligrams per Kilogram |
| mg/L                  | Milligrams per Liter    |



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| Customer Information |                    |        |      | Project Information     |      |          |   | ALS Project Manager: |   |   |   | ALS Work Order #:                     |   |   |   |   |      |
|----------------------|--------------------|--------|------|-------------------------|------|----------|---|----------------------|---|---|---|---------------------------------------|---|---|---|---|------|
| Project Name         |                    |        |      | Lea Refinery            |      |          |   | BTEX (8021)          |   |   |   | Parameter/Method Request for Analysis |   |   |   |   |      |
| Project Number       |                    |        |      | NAV-10-002              |      |          |   | GRO (8015M)          |   |   |   |                                       |   |   |   |   |      |
| Bill To Company      |                    |        |      | Navajo Refining Company |      |          |   | DRO (8015M)          |   |   |   |                                       |   |   |   |   |      |
| Invoice Attn         |                    |        |      | Darrell Moore           |      |          |   | ORO (8015M)          |   |   |   |                                       |   |   |   |   |      |
| Address              |                    |        |      | P.O. Box 159            |      |          |   | Antions (300) CI     |   |   |   |                                       |   |   |   |   |      |
| City/State/Zip       |                    |        |      | Artesia, NM 80211       |      |          |   |                      |   |   |   |                                       |   |   |   |   |      |
| Phone                |                    |        |      | (505) 748-3311          |      |          |   |                      |   |   |   |                                       |   |   |   |   |      |
| Fax                  |                    |        |      | (505) 746-5421          |      |          |   |                      |   |   |   |                                       |   |   |   |   |      |
| e-Mail Address       |                    |        |      | dlgboyer@SES1-NM.com    |      |          |   |                      |   |   |   |                                       |   |   |   |   |      |
| No.                  | Sample Description | Date   | Time | Matrix                  | Pres | #Bottles | A | B                    | C | D | E | F                                     | G | H | I | J | Hold |
| 1                    | CSB-1 100'         | 6/3/10 | 1630 | Soil                    | Q    | 2        | X | X                    | X | X |   |                                       |   |   |   |   |      |
| 2                    | CSB-2 110'         | 6/3/10 | 1640 |                         |      |          |   |                      |   |   |   |                                       |   |   |   |   |      |
| 3                    | CSB-2 10'          | 6/3/10 | 0745 |                         |      |          |   |                      |   |   |   |                                       |   |   |   |   |      |
| 4                    | CSB-2 20'          |        | 0810 |                         |      |          |   |                      |   |   |   |                                       |   |   |   |   |      |
| 5                    | CSB-2 30'          |        | 0820 |                         |      |          |   |                      |   |   |   |                                       |   |   |   |   |      |
| 6                    | CSB-2 40'          |        | 0825 |                         |      |          |   |                      |   |   |   |                                       |   |   |   |   |      |
| 7                    | CSB-2 50'          |        | 0835 |                         |      |          |   |                      |   |   |   |                                       |   |   |   |   |      |
| 8                    | CSB-2 60'          |        | 0845 |                         |      |          |   |                      |   |   |   |                                       |   |   |   |   |      |
| 9                    | CSB-2 70'          |        | 0850 |                         |      |          |   |                      |   |   |   |                                       |   |   |   |   |      |
| 10                   | CSB-2 80'          | 6/3/10 | 0910 | Soil                    | Q    | 2        | X | X                    | X | X |   |                                       |   |   |   |   |      |

| Sampler(s) Please Print & Sign | Shipment Method | Required Turnaround Time (Check Box) | Results Due Date          |
|--------------------------------|-----------------|--------------------------------------|---------------------------|
| D. Boyer                       | 50 Lb Ex        | Other                                | 10 Day TAT. Cc Dave Boyer |

| Relinquished by | Date   | Time | Relinquished by | Date | Time |
|-----------------|--------|------|-----------------|------|------|
| D. Boyer        | 6/3/10 | 1715 |                 |      |      |

| Logged by (Laboratory) | Date | Time | Checked by (Laboratory) | Date | Time |
|------------------------|------|------|-------------------------|------|------|
|                        |      |      |                         |      |      |

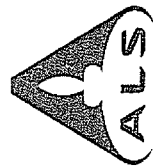
| Preservative Key: | 1-HCl | 2-HNO <sub>3</sub> | 3-H <sub>2</sub> SO <sub>4</sub> | 4-NaOH | 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | 6-NaHSO <sub>3</sub> | 7-Other | 8-4°C | 9-5035 |
|-------------------|-------|--------------------|----------------------------------|--------|-------------------------------------------------|----------------------|---------|-------|--------|
|                   |       |                    |                                  |        |                                                 |                      |         |       |        |

| QC Package: (Check One Box Below) | Level II Std QC | Level III Std QC/Run Data | Level IV SWP45/QLP | Other |
|-----------------------------------|-----------------|---------------------------|--------------------|-------|
|                                   |                 |                           |                    |       |

Notes: 10 Day TAT. Cc Dave Boyer

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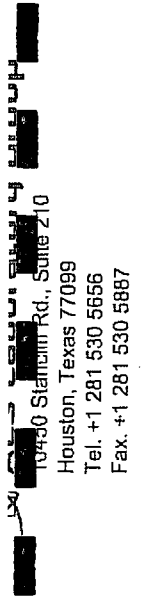
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| Customer Information                                                                                                                                           |                    |        |      | Project Information                   |       |           |   | ALS Project Manager: <u>ALS Work Order #:</u> <u>111111</u> |   |   |   |                                  |   |   |   |                             |      |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------|------|---------------------------------------|-------|-----------|---|-------------------------------------------------------------|---|---|---|----------------------------------|---|---|---|-----------------------------|------|--|--|
| Project Name:                                                                                                                                                  |                    |        |      | Parameter/Method Request for Analysis |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| Project Name: <u>Lea Refining / Navajo Refining</u>                                                                                                            |                    |        |      | BTEX (8021)                           |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| Project Number: <u>NAV-10-443002</u>                                                                                                                           |                    |        |      | GRO (8015M)                           |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| Bill To Company: <u>Navajo Refining Company</u>                                                                                                                |                    |        |      | DRO (8015M)                           |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| Invoice Attn: <u>Darrell Moore</u>                                                                                                                             |                    |        |      | ORO (8015M)                           |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| P.O. Box 159                                                                                                                                                   |                    |        |      | Antons (300) CI                       |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| City/State/Zip: <u>Artesia, NM 88211</u>                                                                                                                       |                    |        |      |                                       |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
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| Fax: <u>(505) 746-5421</u>                                                                                                                                     |                    |        |      |                                       |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| e-Mail Address: <u>dgmoyner@SES-NM.com</u>                                                                                                                     |                    |        |      |                                       |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| No.                                                                                                                                                            | Sample Description | Date   | Time | Matrix                                | Pres. | # Bottles | A | B                                                           | C | D | E | F                                | G | H | I | J                           | Hold |  |  |
| 1                                                                                                                                                              | CSB-2 90'          | 6/3/10 | 0920 | Soil                                  | 8     | 2         | X | X                                                           | X | X | X |                                  |   |   |   |                             |      |  |  |
| 2                                                                                                                                                              | CSB-2 100'         |        | 0930 |                                       |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| 3                                                                                                                                                              | CSB-2 110'         |        | 0940 |                                       |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| 4                                                                                                                                                              | CSB-3 10'          |        | 1310 |                                       |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| 5                                                                                                                                                              | 20'                |        | 1320 |                                       |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| 6                                                                                                                                                              | 30'                |        | 1330 |                                       |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| 7                                                                                                                                                              | 40'                |        | 1340 |                                       |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| 8                                                                                                                                                              | 50'                |        | 1345 |                                       |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| 9                                                                                                                                                              | 60'                |        | 1355 |                                       |       |           |   |                                                             |   |   |   |                                  |   |   |   |                             |      |  |  |
| 10                                                                                                                                                             | CSB-3 70'          | 6/3/10 | 1400 | Soil                                  | 8     | 2         | X | X                                                           | X | X | X |                                  |   |   |   |                             |      |  |  |
| Sample(s) Please Print & Sign                                                                                                                                  |                    |        |      | Shipment Method                       |       |           |   | Required Turnaround Time: (Check Box)                       |   |   |   | Other                            |   |   |   | Results Due Date:           |      |  |  |
|                                                                                                                                                                |                    |        |      |                                       |       |           |   | SWW Days                                                    |   |   |   | SWW Days                         |   |   |   | SWW Days                    |      |  |  |
| Relinquished by:                                                                                                                                               |                    |        |      | Date:                                 |       |           |   | Time:                                                       |   |   |   | Notes: 10 Day TAT. Co Dave Boyer |   |   |   |                             |      |  |  |
| Relinquished by:                                                                                                                                               |                    |        |      | Date:                                 |       |           |   | Time:                                                       |   |   |   | Cooler ID                        |   |   |   | Cooler Temp                 |      |  |  |
| Logged by (Laboratory):                                                                                                                                        |                    |        |      | Date:                                 |       |           |   | Time:                                                       |   |   |   | Level II Std QC                  |   |   |   | Level III Std QC / Raw Data |      |  |  |
| Preservative Key: 1-HCl 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> O <sub>3</sub> 6-NaHSO <sub>4</sub> 7-Other: 8-4°C 9-5035 |                    |        |      |                                       |       |           |   |                                                             |   |   |   | Level IV SW/AS/CLP               |   |   |   | Other                       |      |  |  |

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| Customer Information |  |            |  | Project Information |  |                |  | ALS Project Manager |  |                |  | ALS Work Order # |  |              |  | Parameter/Method Request for Analysis |  |                |  |       |  |     |  |                |  |     |  |                    |  |      |  |      |  |        |  |       |  |           |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
|----------------------|--|------------|--|---------------------|--|----------------|--|---------------------|--|----------------|--|------------------|--|--------------|--|---------------------------------------|--|----------------|--|-------|--|-----|--|----------------|--|-----|--|--------------------|--|------|--|------|--|--------|--|-------|--|-----------|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|
| Purchase Order       |  | Work Order |  | Company Name        |  | Send Report To |  | Project Name        |  | Project Number |  | Bill To Company  |  | Invoice Attn |  | Address                               |  | City/State/Zip |  | Phone |  | Fax |  | e-Mail Address |  | No. |  | Sample Description |  | Date |  | Time |  | Matrix |  | Press |  | # Bottles |  | A |  | B |  | C |  | D |  | E |  | F |  | G |  | H |  | I |  | J |  | K |  | L |  | M |  | N |  | O |  | P |  | Q |  | R |  | S |  | T |  | U |  | V |  | W |  | X |  | Y |  | Z |  | AA |  | AB |  | AC |  | AD |  | AE |  | AF |  | AG |  | AH |  | AI |  | AJ |  | AK |  | AL |  | AM |  | AN |  | AO |  | AP |  | AQ |  | AR |  | AS |  | AT |  | AU |  | AV |  | AW |  | AX |  | AY |  | AZ |  | BA |  | BB |  | BC |  | BD |  | BE |  | BF |  | BG |  | BH |  | BI |  | BJ |  | BK |  | BL |  | BM |  | BN |  | BO |  | BP |  | BQ |  | BR |  | BS |  | BT |  | BU |  | BV |  | BW |  | BX |  | BY |  | BZ |  | CA |  | CB |  | CC |  | CD |  | CE |  | CF |  | CG |  | CH |  | CI |  | CJ |  | CK |  | CL |  | CM |  | CN |  | CO |  | CP |  | CQ |  | CR |  | CS |  | CT |  | CU |  | CV |  | CW |  | CX |  | CY |  | CZ |  | DA |  | DB |  | DC |  | DD |  | DE |  | DF |  | DG |  | DH |  | DI |  | DJ |  | DK |  | DL |  | DM |  | DN |  | DO |  | DP |  | DQ |  | DR |  | DS |  | DT |  | DU |  | DV |  | DW |  | DX |  | DY |  | DZ |  | EA |  | EB |  | EC |  | ED |  | EE |  | EF |  | EG |  | EH |  | EI |  | EJ |  | EK |  | EL |  | EM |  | EN |  | EO |  | EP |  | EQ |  | ER |  | ES |  | ET |  | EU |  | EV |  | EW |  | EX |  | EY |  | EZ |  | FA |  | FB |  | FC |  | FD |  | FE |  | FF |  | FG |  | FH |  | FI |  | FJ |  | FK |  | FL |  | FM |  | FN |  | FO |  | FP |  | FQ |  | FR |  | FS |  | FT |  | FU |  | FV |  | FW |  | FX |  | FY |  | FZ |  | GA |  | GB |  | GC |  | GD |  | GE |  | GF |  | GG |  | GH |  | GI |  | GJ |  | GK |  | GL |  | GM |  | GN |  | GO |  | GP |  | GQ |  | GR |  | GS |  | GT |  | GU |  | GV |  | GW |  | GX |  | GY |  | GZ |  | HA |  | HB |  | HC |  | HD |  | HE |  | HF |  | HG |  | HH |  | HI |  | HJ |  | HK |  | HL |  | HM |  | HN |  | HO |  | HP |  | HQ |  | HR |  | HS |  | HT |  | HU |  | HV |  | HW |  | HX |  | HY |  | HZ |  | IA |  | IB |  | IC |  | ID |  | IE |  | IF |  | IG |  | IH |  | II |  | IJ |  | IK |  | IL |  | IM |  | IN |  | IO |  | IP |  | IQ |  | IR |  | IS |  | IT |  | IU |  | IV |  | IW |  | IX |  | IY |  | IZ |  | JA |  | JB |  | JC |  | JD |  | JE |  | JF |  | JG |  | JH |  | JI |  | JJ |  | JK |  | JL |  | JM |  | JN |  | JO |  | JP |  | JQ |  | JR |  | JS |  | JT |  | JU |  | JV |  | JW |  | JX |  | JY |  | JZ |  | KA |  | KB |  | KC |  | KD |  | KE |  | KF |  | KG |  | KH |  | KI |  | KJ |  | KK |  | KL |  | KM |  | KN |  | KO |  | KP |  | KQ |  | KR |  | KS |  | KT |  | KU |  | KV |  | KW |  | KX |  | KY |  | KZ |  | LA |  | LB |  | LC |  | LD |  | LE |  | LF |  | LG |  | LH |  | LI |  | LJ |  | LK |  | LL |  | LM |  | LN |  | LO |  | LP |  | LQ |  | LR |  | LS |  | LT |  | LU |  | LV |  | LW |  | LX |  | LY |  | LZ |  | MA |  | MB |  | MC |  | MD |  | ME |  | MF |  | MG |  | MH |  | MI |  | MJ |  | MK |  | ML |  | MM |  | MN |  | MO |  | MP |  | MQ |  | MR |  | MS |  | MT |  | MU |  | MV |  | MW |  | MX |  | MY |  | MZ |  | NA |  | NB |  | NC |  | ND |  | NE |  | NF |  | NG |  | NH |  | NI |  | NJ |  | NK |  | NL |  | NM |  | NN |  | NO |  | NP |  | NQ |  | NR |  | NS |  | NT |  | NU |  | NV |  | NW |  | NX |  | NY |  | NZ |  | OA |  | OB |  | OC |  | OD |  | OE |  | OF |  | OG |  | OH |  | OI |  | OJ |  | OK |  | OL |  | OM |  | ON |  | OO |  | OP |  | OQ |  | OR |  | OS |  | OT |  | OU |  | OV |  | OW |  | OX |  | OY |  | OZ |  | PA |  | PB |  | PC |  | PD |  |

**Note:**

1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: 04-Jun-10 08:55

Work Order: 1006150

Received by: RSZ

Checklist completed by Richard Sanchez  
eSignature

04-Jun-10  
Date

Reviewed by: \_\_\_\_\_  
eSignature Date

Matrices: soil

Carrier name: FedEx

|                                                         |                                         |                             |                                                 |
|---------------------------------------------------------|-----------------------------------------|-----------------------------|-------------------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Temperature(s)/Thermometer(s):                          | <u>1.6c, 1.2c</u>                       |                             | <u>002</u>                                      |
| Cooler(s)/Kit(s):                                       | <u></u>                                 |                             |                                                 |
| Water - VOA vials have zero headspace?                  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/>         |
| pH adjusted?                                            | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/>         |
| pH adjusted by:                                         | <u></u>                                 |                             |                                                 |

Login Notes:

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Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

This portion can be removed for recipient's records.  
FedEx Tracking Number 8720967037503200  
Sender's name L. Boyer Phone 505 394-7067  
Company JESI  
Address 103 E. Clinton Hobbs NM 88240  
State NM ZIP 88240

For Internal Billing Reference

This portion can be removed for recipient's records.  
Date 6/3/10 FedEx Tracking Number 869809950805187  
Sender's name L. Boyer Phone 505 394-7067  
Company JESI  
Address 103 E. Clinton Hobbs NM 88240  
State NM ZIP 88240

For Internal Billing Reference

 **ALS Laboratory Group**  
10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

Date: 6/3/10  
Name: L. Boyer  
Company: JESI

**CUSTODY SEAL**

Date: 6/3/10 Time: 1715  
Name: L. Boyer  
Company: JESI

Seal Broken By:

RS  
Date: 6/4/10

 **ALS Laboratory Group**  
10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

Date: 6/3/10  
Name: L. Boyer  
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Company: JESI

**CUSTODY SEAL**

Date: 6/3/10 Time: 1715  
Name: L. Boyer  
Company: JESI

Seal Broken By:

RS  
Date: 6/4/10

# ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



## Environmental Division

24-Jun-2010

Darrell Moore  
Navajo Refining Company  
PO Box 159  
Artesia, NM 88211

Tel: (575) 748-6733  
Fax: (575) 746-5421

Re: Lea Refinery Soil Barings

Work Order: **1006299**

Dear Darrell,

ALS Laboratory Group received 13 samples on 09-Jun-2010 08:50 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 30.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Tiffany Van

JayLynn F Thibault  
Project Manager



Certificate No: T104704231-09A-TX

### ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

[www.alsglobal.com](http://www.alsglobal.com) [www.elabi.com](http://www.elabi.com)

A Campbell Brothers Limited Company



**Client:** Navajo Refining Company  
**Project:** Lea Refinery Soil Barings  
**Work Order:** 1006299

**Work Order Sample Summary**

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1006299-01         | CSB-4 5'                | Soil          |                   | 6/4/2010 07:00         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006299-02         | CSB-4 10'               | Soil          |                   | 6/4/2010 07:10         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006299-03         | CSB-4 20'               | Soil          |                   | 6/4/2010 07:15         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006299-04         | CSB-4 30'               | Soil          |                   | 6/4/2010 07:25         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006299-05         | CSB-4 40'               | Soil          |                   | 6/4/2010 07:35         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006299-06         | CSB-4 50'               | Soil          |                   | 6/4/2010 07:45         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006299-07         | CSB-4 60'               | Soil          |                   | 6/4/2010 08:05         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006299-08         | CSB-4 70'               | Soil          |                   | 6/4/2010 08:15         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006299-09         | CSB-4 80'               | Soil          |                   | 6/4/2010 08:25         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006299-10         | CSB-4 90'               | Soil          |                   | 6/4/2010 08:35         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006299-11         | CSB-4 100'              | Soil          |                   | 6/4/2010 08:45         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006299-12         | CSB-4 110'              | Soil          |                   | 6/4/2010 08:55         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006299-13         | Trip Blank 052810-65    | Water         |                   | 6/4/2010               | 6/9/2010 08:50       | <input type="checkbox"/> |

## ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

### Case Narrative

Batch 43634, DRO: The MS/MSD was performed on an unrelated sample.

# ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Sample ID: CSB-4 5'

Lab ID: 1006299-01

Collection Date: 6/4/2010 07:00 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 84     |      | 8.5            | mg/Kg | 5                    | 6/23/2010 02:53 PM |
| TPH (Motor Oil Range)          | 98     |      | 17             | mg/Kg | 5                    | 6/23/2010 02:53 PM |
| Surr: 2-Fluorobiphenyl         | 97.6   |      | 70-130         | %REC  | 5                    | 6/23/2010 02:53 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 0.36   |      | 0.050          | mg/Kg | 1                    | 6/17/2010 05:02 PM |
| Surr: 4-Bromofluorobenzene     | 115    |      | 70-130         | %REC  | 1                    | 6/17/2010 05:02 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 09:43 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 09:43 PM |
| Ethylbenzene                   | 0.0033 |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 09:43 PM |
| Xylenes, Total                 | 0.0087 |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 09:43 PM |
| Surr: 4-Bromofluorobenzene     | 125    |      | 75-131         | %REC  | 1                    | 6/16/2010 09:43 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                    | 6/16/2010 09:43 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 163    |      | 4.93           | mg/Kg | 1                    | 6/24/2010 01:26 AM |
| Surr: Selenate (surr)          | 107    |      | 85-115         | %REC  | 1                    | 6/24/2010 01:26 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Sample ID: CSB-4 10'

Collection Date: 6/4/2010 07:10 AM

Work Order: 1006299

Lab ID: 1006299-02

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|----------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: <b>KMB</b> |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/23/2010 10:25 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/23/2010 10:25 AM  |
| Surr: 2-Fluorobiphenyl         | 71.1   |      | 70-130         | %REC  | 1                    | 6/23/2010 10:25 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/17/2010 05:25 PM  |
| Surr: 4-Bromofluorobenzene     | 110    |      | 70-130         | %REC  | 1                    | 6/17/2010 05:25 PM  |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 10:03 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 10:03 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 10:03 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 10:03 PM  |
| Surr: 4-Bromofluorobenzene     | 108    |      | 75-131         | %REC  | 1                    | 6/16/2010 10:03 PM  |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/16/2010 10:03 PM  |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: <b>DM</b>  |
| Chloride                       | 523    |      | 5.00           | mg/Kg | 1                    | 6/24/2010 01:41 AM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/24/2010 01:41 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Sample ID: CSB-4 20'

Collection Date: 6/4/2010 07:15 AM

Work Order: 1006299

Lab ID: 1006299-03

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 240    |      | 17             | mg/Kg | 10                   | 6/23/2010 01:14 PM |
| TPH (Motor Oil Range)          | 320    |      | 34             | mg/Kg | 10                   | 6/23/2010 01:14 PM |
| Surr: 2-Fluorobiphenyl         | 87.1   |      | 70-130         | %REC  | 10                   | 6/23/2010 01:14 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/17/2010 05:49 PM |
| Surr: 4-Bromofluorobenzene     | 109    |      | 70-130         | %REC  | 1                    | 6/17/2010 05:49 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 01:31 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 01:31 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 01:31 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/17/2010 01:31 PM |
| Surr: 4-Bromofluorobenzene     | 99.5   |      | 75-131         | %REC  | 1                    | 6/17/2010 01:31 PM |
| Surr: Trifluorotoluene         | 99.4   |      | 73-130         | %REC  | 1                    | 6/17/2010 01:31 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 1,880  |      | 49.9           | mg/Kg | 10                   | 6/24/2010 11:31 AM |
| Surr: Selenate (surr)          | 107    |      | 85-115         | %REC  | 10                   | 6/24/2010 11:31 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Sample ID: CSB-4 30'

Lab ID: 1006299-04

Collection Date: 6/4/2010 07:25 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 19     |      | 1.7            | mg/Kg | 1                    | 6/23/2010 10:25 AM |
| TPH (Motor Oil Range)          | 32     |      | 3.4            | mg/Kg | 1                    | 6/23/2010 10:25 AM |
| Surr: 2-Fluorobiphenyl         | 73.1   |      | 70-130         | %REC  | 1                    | 6/23/2010 10:25 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/17/2010 06:12 PM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 70-130         | %REC  | 1                    | 6/17/2010 06:12 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 10:43 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 10:43 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 10:43 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 10:43 PM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 75-131         | %REC  | 1                    | 6/16/2010 10:43 PM |
| Surr: Trifluorotoluene         | 99.8   |      | 73-130         | %REC  | 1                    | 6/16/2010 10:43 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 1,660  |      | 49.3           | mg/Kg | 10                   | 6/24/2010 10:10 AM |
| Surr: Selenate (surr)          | 100    |      | 85-115         | %REC  | 10                   | 6/24/2010 10:10 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Sample ID: CSB-4 40'

Collection Date: 6/4/2010 07:35 AM

Work Order: 1006299

Lab ID: 1006299-05

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 10:59 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 10:59 PM |
| Surr: 2-Fluorobiphenyl         | 70.7   |      | 70-130         | %REC  | 1                    | 6/12/2010 10:59 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/17/2010 06:35 PM |
| Surr: 4-Bromofluorobenzene     | 111    |      | 70-130         | %REC  | 1                    | 6/17/2010 06:35 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 01:52 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 01:52 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 01:52 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/17/2010 01:52 PM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 75-131         | %REC  | 1                    | 6/17/2010 01:52 PM |
| Surr: Trifluorotoluene         | 99.7   |      | 73-130         | %REC  | 1                    | 6/17/2010 01:52 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 2,190  |      | 49.7           | mg/Kg | 10                   | 6/24/2010 10:24 AM |
| Surr: Selenate (surr)          | 99.6   |      | 85-115         | %REC  | 10                   | 6/24/2010 10:24 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Sample ID: CSB-4 50'

Collection Date: 6/4/2010 07:45 AM

Work Order: 1006299

Lab ID: 1006299-06

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 10:40 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 10:40 PM |
| Surr: 2-Fluorobiphenyl         | 77.2   |      | 70-130         | %REC  | 1                    | 6/12/2010 10:40 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/17/2010 06:59 PM |
| Surr: 4-Bromofluorobenzene     | 109    |      | 70-130         | %REC  | 1                    | 6/17/2010 06:59 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 02:12 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 02:12 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 02:12 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/17/2010 02:12 PM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 75-131         | %REC  | 1                    | 6/17/2010 02:12 PM |
| Surr: Trifluorotoluene         | 99.2   |      | 73-130         | %REC  | 1                    | 6/17/2010 02:12 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 1,300  |      | 49.9           | mg/Kg | 10                   | 6/24/2010 10:39 AM |
| Surr: Selenate (surr)          | 95.9   |      | 85-115         | %REC  | 10                   | 6/24/2010 10:39 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



**ALS Laboratory Group**

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Sample ID: CSB-4 60'

Lab ID: 1006299-07

Collection Date: 6/4/2010 08:05 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/11/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/11/2010 07:29 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/11/2010 07:29 PM |
| Surr: 2-Fluorobiphenyl         | 71.8   |      | 70-130         | %REC  | 1                    | 6/11/2010 07:29 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/17/2010 07:22 PM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 70-130         | %REC  | 1                    | 6/17/2010 07:22 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 02:32 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 02:32 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 02:32 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/17/2010 02:32 PM |
| Surr: 4-Bromofluorobenzene     | 108    |      | 75-131         | %REC  | 1                    | 6/17/2010 02:32 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 6/17/2010 02:32 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 1,130  |      | 49.6           | mg/Kg | 10                   | 6/24/2010 10:53 AM |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 10                   | 6/24/2010 10:53 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Sample ID: CSB-4 70'

Lab ID: 1006299-08

Collection Date: 6/4/2010 08:15 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/11/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/11/2010 07:48 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/11/2010 07:48 PM |
| Surr: 2-Fluorobiphenyl         | 70.3   |      | 70-130         | %REC  | 1                    | 6/11/2010 07:48 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/17/2010 07:45 PM |
| Surr: 4-Bromofluorobenzene     | 108    |      | 70-130         | %REC  | 1                    | 6/17/2010 07:45 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 02:52 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 02:52 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 02:52 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/17/2010 02:52 PM |
| Surr: 4-Bromofluorobenzene     | 107    |      | 75-131         | %REC  | 1                    | 6/17/2010 02:52 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/17/2010 02:52 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 986    |      | 49.7           | mg/Kg | 10                   | 6/24/2010 11:08 AM |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 10                   | 6/24/2010 11:08 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Sample ID: CSB-4 80'

Lab ID: 1006299-09

Collection Date: 6/4/2010 08:25 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/11/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/11/2010 08:08 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/11/2010 08:08 PM |
| Surr: 2-Fluorobiphenyl         | 73.2   |      | 70-130         | %REC  | 1                    | 6/11/2010 08:08 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/17/2010 09:18 PM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 70-130         | %REC  | 1                    | 6/17/2010 09:18 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 03:12 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 03:12 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 03:12 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/17/2010 03:12 PM |
| Surr: 4-Bromofluorobenzene     | 107    |      | 75-131         | %REC  | 1                    | 6/17/2010 03:12 PM |
| Surr: Trifluorotoluene         | 100    |      | 73-130         | %REC  | 1                    | 6/17/2010 03:12 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 222    |      | 4.97           | mg/Kg | 1                    | 6/24/2010 03:22 AM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/24/2010 03:22 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Sample ID: CSB-4 90'

Collection Date: 6/4/2010 08:35 AM

Work Order: 1006299

Lab ID: 1006299-10

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/11/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/11/2010 08:27 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/11/2010 08:27 PM |
| Surr: 2-Fluorobiphenyl         | 70.9   |      | 70-130         | %REC  | 1                    | 6/11/2010 08:27 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/17/2010 09:41 PM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 70-130         | %REC  | 1                    | 6/17/2010 09:41 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 03:32 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 03:32 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 03:32 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/17/2010 03:32 PM |
| Surr: 4-Bromofluorobenzene     | 107    |      | 75-131         | %REC  | 1                    | 6/17/2010 03:32 PM |
| Surr: Trifluorotoluene         | 99.8   |      | 73-130         | %REC  | 1                    | 6/17/2010 03:32 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 8.43   |      | 4.90           | mg/Kg | 1                    | 6/24/2010 04:50 AM |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/24/2010 04:50 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Sample ID: CSB-4 100'

Lab ID: 1006299-11

Collection Date: 6/4/2010 08:45 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/11/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/11/2010 08:46 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/11/2010 08:46 PM |
| Surr: 2-Fluorobiphenyl         | 75.6   |      | 70-130         | %REC  | 1                    | 6/11/2010 08:46 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/17/2010 10:04 PM |
| Surr: 4-Bromofluorobenzene     | 104    |      | 70-130         | %REC  | 1                    | 6/17/2010 10:04 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 03:52 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 03:52 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 03:52 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/17/2010 03:52 PM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 75-131         | %REC  | 1                    | 6/17/2010 03:52 PM |
| Surr: Trifluorotoluene         | 96.5   |      | 73-130         | %REC  | 1                    | 6/17/2010 03:52 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 5.93   |      | 4.98           | mg/Kg | 1                    | 6/24/2010 05:04 AM |
| Surr: Selenate (surr)          | 105    |      | 85-115         | %REC  | 1                    | 6/24/2010 05:04 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Sample ID: CSB-4 110'

Collection Date: 6/4/2010 08:55 AM

Work Order: 1006299

Lab ID: 1006299-12

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/11/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/11/2010 09:06 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/11/2010 09:06 PM |
| Surr: 2-Fluorobiphenyl         | 70.7   |      | 70-130         | %REC  | 1                    | 6/11/2010 09:06 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/17/2010 10:28 PM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 70-130         | %REC  | 1                    | 6/17/2010 10:28 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 05:18 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 05:18 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 05:18 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/17/2010 05:18 PM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 75-131         | %REC  | 1                    | 6/17/2010 05:18 PM |
| Surr: Trifluorotoluene         | 100    |      | 73-130         | %REC  | 1                    | 6/17/2010 05:18 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 84.1   |      | 4.97           | mg/Kg | 1                    | 6/24/2010 05:19 AM |
| Surr: Selenate (surr)          | 106    |      | 85-115         | %REC  | 1                    | 6/24/2010 05:19 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 24-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Barings

Work Order: 1006299

Sample ID: Trip Blank 052810-65

Lab ID: 1006299-13

Collection Date: 6/4/2010

Matrix: WATER

| Analyses                   | Result | Qual | Report Limit   | Units | Dilution Factor | Date Analyzed       |
|----------------------------|--------|------|----------------|-------|-----------------|---------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b> |       |                 | Analyst: <b>KKP</b> |
| Benzene                    | ND     |      | 0.0010         | mg/L  | 1               | 6/15/2010 11:51 AM  |
| Toluene                    | ND     |      | 0.0010         | mg/L  | 1               | 6/15/2010 11:51 AM  |
| Ethylbenzene               | ND     |      | 0.0010         | mg/L  | 1               | 6/15/2010 11:51 AM  |
| Xylenes, Total             | ND     |      | 0.0030         | mg/L  | 1               | 6/15/2010 11:51 AM  |
| Surr: 4-Bromofluorobenzene | 114    |      | 77-129         | %REC  | 1               | 6/15/2010 11:51 AM  |
| Surr: Trifluorotoluene     | 91.5   |      | 75-130         | %REC  | 1               | 6/15/2010 11:51 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company

## QC BATCH REPORT

Work Order: 1006299

Project: Lea Refinery Soil Barings

Batch ID: 43613 Instrument ID FID-8 Method: SW8015M

MBLK Sample ID: FBLKS4-100610-43613 Units: mg/Kg Analysis Date: 6/23/2010 10:44 AM

Client ID: Run ID: FID-8\_100610B SeqNo: 2004197 Prep Date: 6/10/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.499  | 0.10 | 3.33    | 0             | 105  | 70-130        | 0             |      |           |      |

LCS Sample ID: FLCSS4-100610-43613 Units: mg/Kg Analysis Date: 6/23/2010 11:03 AM

Client ID: Run ID: FID-8\_100610B SeqNo: 2004200 Prep Date: 6/10/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 34.69  | 1.7  | 33.33   | 0             | 104  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 33.74  | 3.4  | 33.33   | 0             | 101  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.943  | 0.10 | 3.33    | 0             | 118  | 70-130        | 0             |      |           |      |

MS Sample ID: 1006299-04BMS Units: mg/Kg Analysis Date: 6/23/2010 10:44 AM

Client ID: CSB-4 30' Run ID: FID-8\_100610B SeqNo: 2004225 Prep Date: 6/10/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 44.18  | 1.7  | 33.3    | 19.18         | 75.1 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 62.66  | 3.4  | 33.3    | 31.76         | 92.8 | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 2.763  | 0.10 | 3.327   | 0             | 83   | 70-130        | 0             |      |           |      |

MSD Sample ID: 1006299-04BMSD Units: mg/Kg Analysis Date: 6/23/2010 11:03 AM

Client ID: CSB-4 30' Run ID: FID-8\_100610B SeqNo: 2004226 Prep Date: 6/10/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 47.04  | 1.7  | 33.25   | 19.18         | 83.8 | 70-130        | 44.18         | 6.27 | 30        |      |
| TPH (Motor Oil Range)  | 68.46  | 3.4  | 33.25   | 31.76         | 110  | 70-130        | 62.66         | 8.84 | 30        | E    |
| Surr: 2-Fluorobiphenyl | 2.969  | 0.10 | 3.322   | 0             | 89.4 | 70-130        | 2.763         | 7.19 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006299-01B | 1006299-02B | 1006299-03B |
| 1006299-04B | 1006299-05B | 1006299-06B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
 Work Order: 1006299  
 Project: Lea Refinery Soil Barings

# QC BATCH REPORT

Batch ID: 43634 Instrument ID FID-8 Method: SW8015M

**MBLK** Sample ID: FBLKS1-100611-43634 Units: mg/Kg Analysis Date: 6/11/2010 06:50 PM  
 Client ID: Run ID: FID-8\_100611C SeqNo: 2000514 Prep Date: 6/11/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 2.866  | 0.10 | 3.33    | 0             | 86.1 | 70-130        | 0             |      |           |      |

**LCS** Sample ID: FLCSS1-100611-43634 Units: mg/Kg Analysis Date: 6/11/2010 07:10 PM  
 Client ID: Run ID: FID-8\_100611C SeqNo: 2000515 Prep Date: 6/11/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 24.39  | 1.7  | 33.33   | 0             | 73.2 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 26.01  | 3.4  | 33.33   | 0             | 78   | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.183  | 0.10 | 3.33    | 0             | 95.6 | 70-130        | 0             |      |           |      |

**MS** Sample ID: 1006312-06AMS Units: mg/Kg Analysis Date: 6/12/2010  
 Client ID: Run ID: FID-8\_100611C SeqNo: 2000527 Prep Date: 6/11/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC  | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|-------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 369.7  | 1.7  | 33.31   | 450.1         | -242  | 70-130        | 0             |      |           | SEO  |
| TPH (Motor Oil Range)  | 3998   | 3.4  | 33.31   | 4560          | -1690 | 70-130        | 0             |      |           | SEO  |
| Surr: 2-Fluorobiphenyl | 6.66   | 0.10 | 3.328   | 0             | 200   | 70-130        | 0             |      |           | S    |

**MSD** Sample ID: 1006312-06AMSD Units: mg/Kg Analysis Date: 6/12/2010 12:19 AM  
 Client ID: Run ID: FID-8\_100611C SeqNo: 2000528 Prep Date: 6/11/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC  | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|-------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 294.2  | 1.7  | 33.26   | 450.1         | -469  | 70-130        | 369.7         | 22.8 | 30        | SEO  |
| TPH (Motor Oil Range)  | 3279   | 3.4  | 33.26   | 4560          | -3850 | 70-130        | 3998          | 19.7 | 30        | SEO  |
| Surr: 2-Fluorobiphenyl | 5.539  | 0.10 | 3.323   | 0             | 167   | 70-130        | 6.66          | 18.4 | 30        | S    |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006299-07B | 1006299-08B | 1006299-09B |
| 1006299-10B | 1006299-11B | 1006299-12B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006299  
Project: Lea Refinery Soil Barings

## QC BATCH REPORT

Batch ID: R92642 Instrument ID BTEX1 Method: SW8021B

|                            |                                 |     |         |               |                |               |                                   |      |           |      |
|----------------------------|---------------------------------|-----|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| MBLK                       | Sample ID: MEOHW1-061510-R92642 |     |         |               | Units: µg/L    |               | Analysis Date: 6/15/2010 10:58 AM |      |           |      |
| Client ID:                 | Run ID: BTEX1_100615A           |     |         |               | SeqNo: 1996846 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                          | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Benzene                    | ND                              | 1.0 |         |               |                |               |                                   |      |           |      |
| Toluene                    | ND                              | 1.0 |         |               |                |               |                                   |      |           |      |
| Ethylbenzene               | ND                              | 1.0 |         |               |                |               |                                   |      |           |      |
| Xylenes, Total             | ND                              | 3.0 |         |               |                |               |                                   |      |           |      |
| Surr: 4-Bromofluorobenzene | 33.88                           | 1.0 | 30      | 0             | 113            | 77-129        | 0                                 |      |           |      |
| Surr: Trifluorotoluene     | 27.75                           | 1.0 | 30      | 0             | 92.5           | 75-130        | 0                                 |      |           |      |

|                            |        |     |         |                                 |      |               |                |      |                                   |      |       |
|----------------------------|--------|-----|---------|---------------------------------|------|---------------|----------------|------|-----------------------------------|------|-------|
| MBLK                       |        |     |         | Sample ID: BBLKW1-061510-R92642 |      |               | Units: µg/L    |      | Analysis Date: 6/15/2010 11:15 AM |      |       |
| Client ID:                 |        |     |         | Run ID: BTEX1_100615A           |      |               | SeqNo: 1996847 |      | Prep Date:                        |      | DF: 1 |
| Analyte                    | Result | PQL | SPK Val | SPK Ref Value                   | %REC | Control Limit | RPD Ref Value  | %RPD | RPD Limit                         | Qual |       |
| Benzene                    | ND     | 1.0 |         |                                 |      |               |                |      |                                   |      |       |
| Toluene                    | ND     | 1.0 |         |                                 |      |               |                |      |                                   |      |       |
| Ethylbenzene               | ND     | 1.0 |         |                                 |      |               |                |      |                                   |      |       |
| Xylenes, Total             | ND     | 3.0 |         |                                 |      |               |                |      |                                   |      |       |
| Surr: 4-Bromofluorobenzene | 34.29  | 1.0 | 30      | 0                               | 114  | 77-129        | 0              |      |                                   |      |       |
| Surr: Trifluorotoluene     | 27.12  | 1.0 | 30      | 0                               | 90.4 | 75-130        | 0              |      |                                   |      |       |

|                            |                                 |     |         |               |                |               |               |                                   |           |      |
|----------------------------|---------------------------------|-----|---------|---------------|----------------|---------------|---------------|-----------------------------------|-----------|------|
| LCS                        | Sample ID: BLCSW1-061510-R92642 |     |         |               |                | Units: µg/L   |               | Analysis Date: 6/15/2010 10:23 AM |           |      |
| Client ID:                 | Run ID: BTEX1_100615A           |     |         |               | SeqNo: 1996845 |               | Prep Date:    |                                   | DF: 1     |      |
| Analyte                    | Result                          | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value | %RPD                              | RPD Limit | Qual |
| Benzene                    | 20.51                           | 1.0 | 20      | 0             | 103            | 77-126        | 0             |                                   |           |      |
| Toluene                    | 17.26                           | 1.0 | 20      | 0             | 86.3           | 80-124        | 0             |                                   |           |      |
| Ethylbenzene               | 18.63                           | 1.0 | 20      | 0             | 93.2           | 76-125        | 0             |                                   |           |      |
| Xylenes, Total             | 53.43                           | 3.0 | 60      | 0             | 89.1           | 79-124        | 0             |                                   |           |      |
| Surr: 4-Bromofluorobenzene | 35.76                           | 1.0 | 30      | 0             | 119            | 77-129        | 0             |                                   |           |      |
| Surr: Trifluorotoluene     | 28.11                           | 1.0 | 30      | 0             | 93.7           | 75-130        | 0             |                                   |           |      |

|                            |                          |     |         |               |                |               |               |                                   |           |      |
|----------------------------|--------------------------|-----|---------|---------------|----------------|---------------|---------------|-----------------------------------|-----------|------|
| MS                         | Sample ID: 1006372-06AMS |     |         |               |                | Units: µg/L   |               | Analysis Date: 6/15/2010 02:09 PM |           |      |
| Client ID:                 | Run ID: BTEX1_100615A    |     |         |               | SeqNo: 1996857 |               | Prep Date:    |                                   | DF: 1     |      |
| Analyte                    | Result                   | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value | %RPD                              | RPD Limit | Qual |
| Benzene                    | 22.24                    | 1.0 | 20      | 0             | 111            | 77-126        | 0             |                                   |           |      |
| Toluene                    | 17.56                    | 1.0 | 20      | 0             | 87.8           | 80-124        | 0             |                                   |           |      |
| Ethylbenzene               | 18.65                    | 1.0 | 20      | 0             | 93.3           | 76-125        | 0             |                                   |           |      |
| Xylenes, Total             | 54.04                    | 3.0 | 60      | 0             | 90.1           | 79-124        | 0             |                                   |           |      |
| Surr: 4-Bromofluorobenzene | 35.07                    | 1.0 | 30      | 0             | 117            | 77-129        | 0             |                                   |           |      |
| Surr: Trifluorotoluene     | 28.14                    | 1.0 | 30      | 0             | 93.8           | 75-130        | 0             |                                   |           |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006299  
Project: Lea Refinery Soil Barings

## QC BATCH REPORT

Batch ID: **R92642** Instrument ID **BTEX1** Method: **SW8021B**

MSD Sample ID: **1006372-06AMSD** Units: **µg/L** Analysis Date: **6/15/2010 02:26 PM**

Client ID: Run ID: **BTEX1\_100615A** SeqNo: **1996858** Prep Date: DF: **1**

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 22.58  | 1.0 | 20      | 0             | 113  | 77-126        | 22.24         | 1.49  | 20        |      |
| Toluene                    | 17.94  | 1.0 | 20      | 0             | 89.7 | 80-124        | 17.56         | 2.11  | 20        |      |
| Ethylbenzene               | 19.24  | 1.0 | 20      | 0             | 96.2 | 76-125        | 18.65         | 3.1   | 20        |      |
| Xylenes, Total             | 55.42  | 3.0 | 60      | 0             | 92.4 | 79-124        | 54.04         | 2.53  | 20        |      |
| Surr: 4-Bromofluorobenzene | 35.16  | 1.0 | 30      | 0             | 117  | 77-129        | 35.07         | 0.241 | 20        |      |
| Surr: Trifluorotoluene     | 27.64  | 1.0 | 30      | 0             | 92.1 | 75-130        | 28.14         | 1.82  | 20        |      |

The following samples were analyzed in this batch: 1006299-13A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006299  
 Project: Lea Refinery Soil Barings

# QC BATCH REPORT

Batch ID: R92710 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061610-R92710 Units: µg/Kg Analysis Date: 6/16/2010 11:58 AM  
 Client ID: Run ID: BTEX3\_100616A SeqNo: 1998357 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.53  | 1.0 | 30      | 0             | 102  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.04  | 1.0 | 30      | 0             | 103  | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-061610-R92710 Units: µg/Kg Analysis Date: 6/16/2010 11:21 AM  
 Client ID: Run ID: BTEX3\_100616A SeqNo: 1998356 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 21.35  | 1.0 | 20      | 0             | 107  | 74-129        | 0             |      |           |      |
| Toluene                    | 22.18  | 1.0 | 20      | 0             | 111  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.99  | 1.0 | 20      | 0             | 110  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 67.52  | 3.0 | 60      | 0             | 113  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.71  | 1.0 | 30      | 0             | 109  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.03  | 1.0 | 30      | 0             | 103  | 73-130        | 0             |      |           |      |

MS Sample ID: 1006296-24AMS Units: µg/Kg Analysis Date: 6/16/2010 03:48 PM  
 Client ID: Run ID: BTEX3\_100616A SeqNo: 1998395 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.52  | 1.0 | 20      | 0             | 113  | 74-129        | 0             |      |           |      |
| Toluene                    | 22.93  | 1.0 | 20      | 0             | 115  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 22.37  | 1.0 | 20      | 0             | 112  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 68.98  | 3.0 | 60      | 0             | 115  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 33.95  | 1.0 | 30      | 0             | 113  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 32.48  | 1.0 | 30      | 0             | 108  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1006296-24AMSD Units: µg/Kg Analysis Date: 6/16/2010 04:08 PM  
 Client ID: Run ID: BTEX3\_100616A SeqNo: 1998396 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 21.86  | 1.0 | 20      | 0             | 109  | 74-129        | 22.52         | 2.97  | 30        |      |
| Toluene                    | 22.79  | 1.0 | 20      | 0             | 114  | 75-128        | 22.93         | 0.628 | 30        |      |
| Ethylbenzene               | 23.01  | 1.0 | 20      | 0             | 115  | 73-127        | 22.37         | 2.79  | 30        |      |
| Xylenes, Total             | 70.21  | 3.0 | 60      | 0             | 117  | 74-127        | 68.98         | 1.76  | 30        |      |
| Surr: 4-Bromofluorobenzene | 34.65  | 1.0 | 30      | 0             | 116  | 75-131        | 33.95         | 2.04  | 30        |      |
| Surr: Trifluorotoluene     | 32.03  | 1.0 | 30      | 0             | 107  | 73-130        | 32.48         | 1.4   | 30        |      |

The following samples were analyzed in this batch:

1006299-01A 1006299-02A 1006299-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006299  
 Project: Lea Refinery Soil Barings

# QC BATCH REPORT

Batch ID: R92712 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061710-R92712 Units: µg/Kg Analysis Date: 6/17/2010 01:11 PM

Client ID: Run ID: BTEX3\_100617A SeqNo: 1998400 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 31.27  | 1.0 | 30      | 0             | 104  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.2   | 1.0 | 30      | 0             | 104  | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-061710-R92712 Units: µg/Kg Analysis Date: 6/17/2010 12:37 PM

Client ID: Run ID: BTEX3\_100617A SeqNo: 1998399 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.83  | 1.0 | 20      | 0             | 104  | 74-129        | 0             |      |           |      |
| Toluene                    | 22     | 1.0 | 20      | 0             | 110  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.85  | 1.0 | 20      | 0             | 109  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 65.89  | 3.0 | 60      | 0             | 110  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 31.67  | 1.0 | 30      | 0             | 106  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.11  | 1.0 | 30      | 0             | 104  | 73-130        | 0             |      |           |      |

MS Sample ID: 1006299-11AMS Units: µg/Kg Analysis Date: 6/17/2010 04:33 PM

Client ID: CSB-4 100' Run ID: BTEX3\_100617A SeqNo: 1998410 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 21.39  | 1.0 | 20      | 0             | 107  | 74-129        | 0             |      |           |      |
| Toluene                    | 22.97  | 1.0 | 20      | 0             | 115  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 22.26  | 1.0 | 20      | 0             | 111  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 67.88  | 3.0 | 60      | 0             | 113  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.16  | 1.0 | 30      | 0             | 107  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.3   | 1.0 | 30      | 0             | 104  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1006299-11AMSD Units: µg/Kg Analysis Date: 6/17/2010 04:53 PM

Client ID: CSB-4 100' Run ID: BTEX3\_100617A SeqNo: 1998411 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 20.84  | 1.0 | 20      | 0             | 104  | 74-129        | 21.39         | 2.59  | 30        |      |
| Toluene                    | 22.27  | 1.0 | 20      | 0             | 111  | 75-128        | 22.97         | 3.09  | 30        |      |
| Ethylbenzene               | 22.17  | 1.0 | 20      | 0             | 111  | 73-127        | 22.26         | 0.4   | 30        |      |
| Xylenes, Total             | 67.74  | 3.0 | 60      | 0             | 113  | 74-127        | 67.88         | 0.202 | 30        |      |
| Surr: 4-Bromofluorobenzene | 32.48  | 1.0 | 30      | 0             | 108  | 75-131        | 32.16         | 0.988 | 30        |      |
| Surr: Trifluorotoluene     | 30.98  | 1.0 | 30      | 0             | 103  | 73-130        | 31.3          | 1.04  | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006299  
Project: Lea Refinery Soil Barings

## QC BATCH REPORT

Batch ID: **R92712**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006299-03A | 1006299-05A | 1006299-06A |
| 1006299-07A | 1006299-08A | 1006299-09A |
| 1006299-10A | 1006299-11A | 1006299-12A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006299  
Project: Lea Refinery Soil Barings

# QC BATCH REPORT

Batch ID: R92970 Instrument ID FID-9 Method: SW8015

|                            |                                |        |         |               |                |               |                                   |      |           |      |
|----------------------------|--------------------------------|--------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| MBLK                       | Sample ID: GBLKS-061710-R92970 |        |         |               | Units: mg/Kg   |               | Analysis Date: 6/17/2010 02:03 PM |      |           |      |
| Client ID:                 | Run ID: FID-9_100617A          |        |         |               | SeqNo: 2004125 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                         | PQL    | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | ND                             | 0.050  |         |               |                |               |                                   |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1038                         | 0.0050 | 0.1     | 0             | 104            | 70-130        | 0                                 |      |           |      |

|                            |                                |        |         |               |                |               |                                   |      |           |      |
|----------------------------|--------------------------------|--------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| LCS                        | Sample ID: GLCSS-061710-R92970 |        |         |               | Units: mg/Kg   |               | Analysis Date: 6/17/2010 01:39 PM |      |           |      |
| Client ID:                 | Run ID: FID-9_100617A          |        |         |               | SeqNo: 2004123 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                         | PQL    | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | 1.131                          | 0.050  | 1       | 0             | 113            | 70-130        | 0                                 |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1061                         | 0.0050 | 0.1     | 0             | 106            | 70-130        | 0                                 |      |           |      |

|                            |                          |                       |         |               |                |               |                                   |      |           |      |
|----------------------------|--------------------------|-----------------------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| MS                         | Sample ID: 1006299-08BMS |                       |         |               | Units: mg/Kg   |               | Analysis Date: 6/17/2010 08:08 PM |      |           |      |
| Client ID: CSB-4 70'       |                          | Run ID: FID-9_100617A |         |               | SeqNo: 2004140 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                   | PQL                   | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | 1.165                    | 0.050                 | 1       | 0             | 117            | 70-130        | 0                                 |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1043                   | 0.0050                | 0.1     | 0             | 104            | 70-130        | 0                                 |      |           |      |

|                            |                           |                       |         |               |                |               |               |                                   |           |      |
|----------------------------|---------------------------|-----------------------|---------|---------------|----------------|---------------|---------------|-----------------------------------|-----------|------|
| MSD                        | Sample ID: 1006299-08BMSD |                       |         |               | Units: mg/Kg   |               |               | Analysis Date: 6/17/2010 08:31 PM |           |      |
| Client ID: CSB-4 70'       |                           | Run ID: FID-9_100617A |         |               | SeqNo: 2004141 |               | Prep Date:    |                                   | DF: 1     |      |
| Analyte                    | Result                    | PQL                   | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value | %RPD                              | RPD Limit | Qual |
| Gasoline Range Organics    | 1.138                     | 0.050                 | 1       | 0             | 114            | 70-130        | 1.165         | 2.35                              | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.1067                    | 0.0050                | 0.1     | 0             | 107            | 70-130        | 0.1043        | 2.31                              | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006299-01B | 1006299-02B | 1006299-03B |
| 1006299-04B | 1006299-05B | 1006299-06B |
| 1006299-07B | 1006299-08B | 1006299-09B |
| 1006299-10B | 1006299-11B | 1006299-12B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006299  
Project: Lea Refinery Soil Barings

## QC BATCH REPORT

Batch ID: 43619 Instrument ID ICS3000 Method: E300

LCS Sample ID: WLCSS1-061010-43619 Units: mg/Kg Analysis Date: 6/15/2010 01:38 PM

Client ID: Run ID: ICS3000\_100615B SeqNo: 1996340 Prep Date: 6/10/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 189    | 5.0 | 200     | 0             | 94.5 | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 50.36  | 1.0 | 50      | 0             | 101  | 85-115        | 0             |      |           |      |

MS Sample ID: 1006299-09BMS Units: mg/Kg Analysis Date: 6/24/2010 04:35 AM

Client ID: CSB-4 80' Run ID: ICS2100\_100623A SeqNo: 2005515 Prep Date: 6/10/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 298.5  | 5.0  | 99.4    | 222           | 77   | 75-125        | 1.332         | 0    | 0         |      |
| Surr: Selenate (surr) | 48.47  | 0.99 | 49.7    | 0             | 97.5 | 80-120        | 0             | 0    |           |      |

MS Sample ID: 1006299-12BMS Units: mg/Kg Analysis Date: 6/24/2010 05:48 AM

Client ID: CSB-4 110' Run ID: ICS2100\_100623A SeqNo: 2005520 Prep Date: 6/10/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 182.2  | 5.0  | 99.4    | 84.12         | 98.7 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 52.87  | 0.99 | 49.7    | 0             | 106  | 80-120        | 0             |      |           |      |

MSD Sample ID: 1006299-12BMSD Units: mg/Kg Analysis Date: 6/24/2010 06:02 AM

Client ID: CSB-4 110' Run ID: ICS2100\_100623A SeqNo: 2005521 Prep Date: 6/10/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 184.4  | 5.0  | 99.4    | 84.12         | 101  | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 53.14  | 0.99 | 49.7    | 0             | 107  | 80-120        | 0             |      |           |      |

DUP Sample ID: 1006299-12BDUP Units: mg/Kg Analysis Date: 6/24/2010 05:33 AM

Client ID: CSB-4 110' Run ID: ICS2100\_100623A SeqNo: 2005519 Prep Date: 6/10/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 92.46  | 5.0  | 0       | 0             | 0    | 0-0           | 84.12         | 9.45 | 20        |      |
| Surr: Selenate (surr) | 50.26  | 0.99 | 49.7    | 0             | 101  | 85-115        | 52.69         | 4.73 | 20        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006299-01B | 1006299-02B | 1006299-03B |
| 1006299-04B | 1006299-05B | 1006299-06B |
| 1006299-07B | 1006299-08B | 1006299-09B |
| 1006299-10B | 1006299-11B | 1006299-12B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



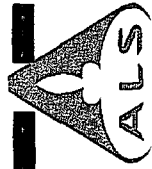
**Client:** Navajo Refining Company  
**Project:** Lea Refinery Soil Barings  
**WorkOrder:** 1006299

## **QUALIFIERS, ACRONYMS, UNITS**

| <u>Qualifier</u> | <u>Description</u>                                                        |
|------------------|---------------------------------------------------------------------------|
| *                | Value exceeds Regulatory Limit                                            |
| a                | Not accredited                                                            |
| B                | Analyte detected in the associated Method Blank above the Reporting Limit |
| E                | Value above quantitation range                                            |
| H                | Analyzed outside of Holding Time                                          |
| J                | Analyte detected below quantitation limit                                 |
| M                | Manually integrated, see raw data for justification                       |
| n                | Not offered for accreditation                                             |
| ND               | Not Detected at the Reporting Limit                                       |
| O                | Sample amount is > 4 times amount spiked                                  |
| P                | Dual Column results percent difference > 40%                              |
| R                | RPD above laboratory control limit                                        |
| S                | Spike Recovery outside laboratory control limits                          |
| U                | Analyzed but not detected above the MDL                                   |

| <u>Acronym</u> | <u>Description</u>                  |
|----------------|-------------------------------------|
| DUP            | Method Duplicate                    |
| LCS            | Laboratory Control Sample           |
| LCSD           | Laboratory Control Sample Duplicate |
| MBLK           | Method Blank                        |
| MDL            | Method Detection Limit              |
| MQL            | Method Quantitation Limit           |
| MS             | Matrix Spike                        |
| MSD            | Matrix Spike Duplicate              |
| PDS            | Post Digestion Spike                |
| PQL            | Practical Quantitation Limit        |
| SD             | Serial Dilution                     |
| SDL            | Sample Detection Limit              |
| TRRP           | Texas Risk Reduction Program        |

| <u>Units Reported</u> | <u>Description</u>      |
|-----------------------|-------------------------|
| mg/Kg                 | Milligrams per Kilogram |
| mg/L                  | Milligrams per Liter    |



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Page 1 of 2

| Customer Information |                    |        |      | Project Information |       |           |   | ALS Project Manager: [Signature] |   |   |   |                 |   |   |   |                                       |      |  |  | ALS Work Order #: 106299 |  |  |  |  |  |  |  |  |  |  |  |
|----------------------|--------------------|--------|------|---------------------|-------|-----------|---|----------------------------------|---|---|---|-----------------|---|---|---|---------------------------------------|------|--|--|--------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Purchase Order       |                    |        |      | Project Name        |       |           |   | Lea Refinery                     |   |   |   | BTEX (8021)     |   |   |   | Parameter/Method Request for Analysis |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Work Order           |                    |        |      | Project Number      |       |           |   | NAV-10-002                       |   |   |   | GRO (8015M)     |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Company Name         |                    |        |      | Bill To Company     |       |           |   | Navajo Refining Company          |   |   |   | DRO (8015M)     |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Send Report To       |                    |        |      | Invoice Attn        |       |           |   | Darrell Moore                    |   |   |   | ORO (8015M)     |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Address              |                    |        |      | Address             |       |           |   | P.O. Box 159                     |   |   |   | Anions (300) Cl |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| City/State/Zip       |                    |        |      | City/State/Zip      |       |           |   | Artesia, NM 88211                |   |   |   |                 |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Phone                |                    |        |      | Phone               |       |           |   | (505) 748-3311                   |   |   |   |                 |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Fax                  |                    |        |      | Fax                 |       |           |   | (505) 746-5421                   |   |   |   |                 |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| e-Mail Address       |                    |        |      | e-Mail Address      |       |           |   | dgboyer@SESL-NM.com              |   |   |   |                 |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| No.                  | Sample Description | Date   | Time | Matrix              | Pres. | # Bottles | A | B                                | C | D | E | F               | G | H | I | J                                     | Hold |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 1                    | CSB-4 5'           | 6/4/10 | 0700 | Sa1                 | 8     | 2         | X | X                                | X | X | X |                 |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 2                    | 10'                |        | 0710 |                     |       |           |   |                                  |   |   |   |                 |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 3                    | 20'                |        | 0715 |                     |       |           |   |                                  |   |   |   |                 |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 4                    | 30'                |        | 0725 |                     |       |           |   |                                  |   |   |   |                 |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 5                    | 40'                |        | 0735 |                     |       |           |   |                                  |   |   |   |                 |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 6                    | 50'                |        | 0743 |                     |       |           |   |                                  |   |   |   |                 |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 7                    | 60'                |        | 0805 |                     |       |           |   |                                  |   |   |   |                 |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 8                    | 70'                |        | 0815 |                     |       |           |   |                                  |   |   |   |                 |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 9                    | 80'                |        | 0825 |                     |       |           |   |                                  |   |   |   |                 |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 10                   | CSB-4 90'          | 6/4/10 | 0835 | Sa1                 | 8     | 2         | X | X                                | X | X | X |                 |   |   |   |                                       |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |

Relinquished by: [Signature] Date: 6/8/10 Time: 0800

Relinquished by: [Signature] Date: 6/8/10 Time: 0800

Logged by (Laboratory): [Signature] Date: 6/8/10 Time: 0800

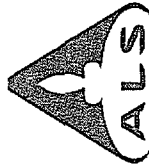
Preservative Key: 1-HCl 2-HNO<sub>3</sub> 3-H<sub>2</sub>SO<sub>4</sub> 4-NaOH 5-Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-NaHSO<sub>4</sub> 7-Other: 8-4°C 9-5035

Required Turnaround Time: (Check Box) ☒ 10 Day TAT, Co. Dave Boyer

QC Packaging: (Check One Box Below) ☒ Level II Std QC ☐ TRRP CheckList ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SWD45/CLP ☐ Other

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# Chain of Custody Form

ALS Laboratory Group  
3352 128th Ave.  
Holland, MI 49424-9263  
Tel. +1 616 399 6070  
Fax: +1 616 399 6185

Page 2 of 2

| Customer Information |                      |        |      | Project Information     |       |           |   | ALS Project Manager: [Signature]      |   |   |   |   |   |   |   |   |      |  |  | ALS Work Order #: 106799 |  |  |  |  |  |  |  |  |  |  |  |
|----------------------|----------------------|--------|------|-------------------------|-------|-----------|---|---------------------------------------|---|---|---|---|---|---|---|---|------|--|--|--------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Project Name         |                      |        |      | Lea Refining            |       |           |   | Parameter/Method Request for Analysis |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Project Number       |                      |        |      | NAV-10-002              |       |           |   | BTEX (8021)                           |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Bill To Company      |                      |        |      | Navajo Refining Company |       |           |   | GRO (8015M)                           |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Invoice Attn         |                      |        |      | Darrell Moore           |       |           |   | DRO (8015M)                           |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Address              |                      |        |      | P.O. Box 159            |       |           |   | ORO (8015M)                           |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| City/State/Zip       |                      |        |      | Artesia, NM 88211       |       |           |   | Anions (300) CI                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Phone                |                      |        |      | (505) 748-3311          |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Fax                  |                      |        |      | (505) 746-5421          |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| e-Mail Address       |                      |        |      | dmoore@SESI-NM.com      |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| No.                  | Sample Description   | Date   | Time | Matrix                  | Pres. | # Bottles | A | B                                     | C | D | E | F | G | H | I | J | Hold |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 1                    | CSB-4 100'           | 6/4/10 | 0845 | Soil                    | 8     | 2         | X | X                                     | X | X | X |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 2                    | CSB-4 110'           | 6/4/10 | 0855 | Soil                    | 8     | 2         | X | X                                     | X | X | X |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 3                    | TRIP Blank 052810-65 |        |      | H2O                     | 1, B  | 2         | X |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 4                    |                      |        |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 5                    |                      |        |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 6                    |                      |        |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 7                    |                      |        |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 8                    |                      |        |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 9                    |                      |        |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 10                   |                      |        |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |

| Sampler(s) Please Print & Sign                                                              |  | Shipment Method |  | Required Turnaround Time: (Check Box) |  | Results Due Date:                      |  |
|---------------------------------------------------------------------------------------------|--|-----------------|--|---------------------------------------|--|----------------------------------------|--|
| D. Boyer                                                                                    |  | FedEx           |  | Other 1-2 Wk Days                     |  | 10 Day TAT, Co Dave Boyer              |  |
| Relinquished by: [Signature]                                                                |  | Date: 6/4/10    |  | Time: 0800                            |  | Cooler Temp: 10 Day TAT, Co Dave Boyer |  |
| Relinquished by: [Signature]                                                                |  | Date: 6/4/10    |  | Time: 0800                            |  | Cooler Temp: 10 Day TAT, Co Dave Boyer |  |
| Logged by (Laboratory):                                                                     |  | Date: 6/4/10    |  | Time: 0800                            |  | Cooler Temp: 10 Day TAT, Co Dave Boyer |  |
| Preservative Key: 1-HCl, 2-HNO3, 3-H2SO4, 4-NaOH, 5-Na2S2O3, 6-NaHSO4, 7-Other 8-4°C 9-5035 |  | Date: 6/4/10    |  | Time: 0800                            |  | Cooler Temp: 10 Day TAT, Co Dave Boyer |  |

| QC Package: (Check One Box Below)                   |                                         | Cooler Temp:              |  |
|-----------------------------------------------------|-----------------------------------------|---------------------------|--|
| <input checked="" type="checkbox"/> Level II Std QC | <input type="checkbox"/> TRRP Checklist | 10 Day TAT, Co Dave Boyer |  |
| <input type="checkbox"/> Level III Std QC/RAW Data  | <input type="checkbox"/> TRRP Level IV  |                           |  |
| <input type="checkbox"/> Level IV SW346/CLP         | <input type="checkbox"/> Other          |                           |  |

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Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: 09-Jun-10 08:50

Work Order: 1006299

Received by: RNG

Checklist completed by Robert D. Harris  
eSignature

09-Jun-10  
Date

Reviewed by:

eSignature

Date

Matrices: soils/water

Carrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

2.2c, 1.8c

002

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace?

Yes ☒

No ☐

No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

This portion can be removed for recipient's records.

Date: 6/8/10 FedEx Tracking Number: 869809950893

Sender's Name: D. Boyer Phone: 575 390-7767

Company: SEET

Address: 703 E. Clinton

Hobbs State: NM ZIP: 88240

Internal Billing Reference: 114V-02-002 332

**ALS Laboratory Group**  
10450 Stancliff Rd., Suite 210  
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|                         |            |                            |
|-------------------------|------------|----------------------------|
| <b>CUSTODY SEAL 332</b> |            | Seal Broken By: <b>AVG</b> |
| Date: 6/8/10            | Time: 0800 | Date: 6/9/10               |
| Name: D. Boyer          |            |                            |
| Company: SEET           |            |                            |

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Fax. +1 281 530 5887

|                     |            |                            |
|---------------------|------------|----------------------------|
| <b>CUSTODY SEAL</b> |            | Seal Broken By: <b>AVG</b> |
| Date: 6/8/10        | Time: 0800 | Date: 6/9/10               |
| Name: D. Boyer      |            |                            |
| Company: SEET       |            |                            |

This portion can be removed for recipient's records.

Date: 6/8/10 FedEx Tracking Number: 873133853497

Sender's Name: D. Boyer Phone: 575 390-7067

Company: SEET

Address: 703 E. Clinton

Hobbs State: NM ZIP: 88240

Internal Billing Reference: 114V-10-003 1077

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|                          |            |                            |
|--------------------------|------------|----------------------------|
| <b>CUSTODY SEAL 1077</b> |            | Seal Broken By: <b>AVG</b> |
| Date: 6/8/10             | Time: 0800 | Date: 6/9/10               |
| Name: D. Boyer           |            |                            |
| Company: SEET            |            |                            |

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|                          |            |                            |
|--------------------------|------------|----------------------------|
| <b>CUSTODY SEAL 1077</b> |            | Seal Broken By: <b>AVG</b> |
| Date: 6/8/10             | Time: 0800 | Date: 6/9/10               |
| Name: D. Boyer           |            |                            |
| Company: SEET            |            |                            |

# ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



## Environmental Division

06-Jul-2010

Darrell Moore  
Navajo Refining Company  
PO Box 159  
Artesia, NM 88211

Tel: (575) 748-6733  
Fax: (575) 746-5421

Re: Lea Refinery Soil Borings

Work Order: 1006499

Dear Darrell,

ALS Laboratory Group received 73 samples on 15-Jun-2010 11:40 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 125.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Glenda H. Ramos

JayLynn F Thibault  
Project Manager



Certificate No: T104704231-09A-TX

### ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

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[www.alsglobal.com](http://www.alsglobal.com) [www.elabi.com](http://www.elabi.com)

A Campbell Brothers Limited Company

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

## Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1006499-01         | WSB-1 10'               | Soil          |                   | 6/8/2010 10:50         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-02         | WSB-1 20'               | Soil          |                   | 6/8/2010 11:00         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-03         | WSB-1 30'               | Soil          |                   | 6/8/2010 11:10         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-04         | WSB-1 40'               | Soil          |                   | 6/8/2010 11:20         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-05         | WSB-1 50'               | Soil          |                   | 6/8/2010 11:25         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-06         | WSB-1 60'               | Soil          |                   | 6/8/2010 11:35         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-07         | WSB-1 70'               | Soil          |                   | 6/8/2010 11:45         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-08         | WSB-1 80'               | Soil          |                   | 6/8/2010 12:45         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-09         | WSB-1 90'               | Soil          |                   | 6/8/2010 12:55         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-10         | WSB-1 100'              | Soil          |                   | 6/8/2010 13:05         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-11         | WSB-1 110'              | Soil          |                   | 6/8/2010 13:15         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-12         | WSB-2 10'               | Soil          |                   | 6/9/2010 07:15         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-13         | WSB-2 20'               | Soil          |                   | 6/9/2010 07:25         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-14         | WSB-2 30'               | Soil          |                   | 6/9/2010 08:20         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-15         | WSB-2 40'               | Soil          |                   | 6/9/2010 08:30         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-16         | WSB-3 10'               | Soil          |                   | 6/9/2010 09:20         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-17         | WSB-3 20'               | Soil          |                   | 6/9/2010 09:30         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-18         | WSB-3 30'               | Soil          |                   | 6/9/2010 09:40         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-19         | WSB-3 40'               | Soil          |                   | 6/9/2010 09:50         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-20         | WSB-3 50'               | Soil          |                   | 6/9/2010 10:00         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-21         | WSB-3 60'               | Soil          |                   | 6/9/2010 10:10         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-22         | WSB-3 70'               | Soil          |                   | 6/9/2010 10:20         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-23         | WSB-3 80'               | Soil          |                   | 6/9/2010 10:40         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-24         | WSB-3 90'               | Soil          |                   | 6/9/2010 10:50         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-25         | WSB-3 100'              | Soil          |                   | 6/9/2010 11:05         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-26         | WSB-3 110'              | Soil          |                   | 6/9/2010 11:15         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-27         | WSB-4 10'               | Soil          |                   | 6/9/2010 13:30         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-28         | WSB-4 20'               | Soil          |                   | 6/9/2010 13:40         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-29         | WSB-5 10'               | Soil          |                   | 6/9/2010 14:30         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-30         | WSB-5 20'               | Soil          |                   | 6/9/2010 14:40         | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-31         | WSB-6 10'               | Soil          |                   | 6/10/2010 07:00        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-32         | WSB-6 20'               | Soil          |                   | 6/10/2010 07:10        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-33         | WSB-6 30'               | Soil          |                   | 6/10/2010 07:20        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-34         | WSB-6 40'               | Soil          |                   | 6/10/2010 07:30        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-35         | WSB-6 50'               | Soil          |                   | 6/10/2010 07:50        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-36         | WSB-6 60'               | Soil          |                   | 6/10/2010 08:00        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-37         | WSB-6 70'               | Soil          |                   | 6/10/2010 08:25        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-38         | WSB-6 80'               | Soil          |                   | 6/10/2010 08:35        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-39         | WSB-6 90'               | Soil          |                   | 6/10/2010 08:45        | 6/15/2010 11:40      | <input type="checkbox"/> |

**Client:** Navajo Refining Company  
**Project:** Lea Refinery Soil Borings  
**Work Order:** 1006499

## Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1006499-40         | WSB-6 100'              | Soil          |                   | 6/10/2010 08:55        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-41         | WSB-6 110'              | Soil          |                   | 6/10/2010 09:00        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-42         | WSB-4 30'               | Soil          |                   | 6/10/2010 11:15        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-43         | WSB-4 40'               | Soil          |                   | 6/10/2010 11:25        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-44         | WSB-4 50'               | Soil          |                   | 6/10/2010 11:35        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-45         | WSB-4 60'               | Soil          |                   | 6/10/2010 12:40        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-46         | WSB-4 70'               | Soil          |                   | 6/10/2010 12:50        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-47         | WSB-4 80'               | Soil          |                   | 6/10/2010 13:00        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-48         | WSB-4 90'               | Soil          |                   | 6/10/2010 13:10        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-49         | WSB-4 100'              | Soil          |                   | 6/10/2010 13:20        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-50         | WSB-4 110'              | Soil          |                   | 6/10/2010 13:30        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-51         | WSB-5 30'               | Soil          |                   | 6/11/2010 06:55        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-52         | WSB-5 40'               | Soil          |                   | 6/11/2010 07:05        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-53         | WSB-5 50'               | Soil          |                   | 6/11/2010 07:20        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-54         | WSB-5 60'               | Soil          |                   | 6/11/2010 07:30        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-55         | WSB-5 70'               | Soil          |                   | 6/11/2010 07:40        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-56         | WSB-5 80'               | Soil          |                   | 6/11/2010 07:50        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-57         | WSB-5 90'               | Soil          |                   | 6/11/2010 08:00        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-58         | WSB-5 100'              | Soil          |                   | 6/11/2010 08:10        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-59         | WSB-5 110'              | Soil          |                   | 6/11/2010 08:20        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-60         | WSB-7 10'               | Soil          |                   | 6/11/2010 12:00        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-61         | WSB-7 20'               | Soil          |                   | 6/11/2010 12:10        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-62         | WSB-7 30'               | Soil          |                   | 6/11/2010 13:25        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-63         | WSB-7 40'               | Soil          |                   | 6/11/2010 13:35        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-64         | WSB-7 50'               | Soil          |                   | 6/11/2010 13:40        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-65         | WSB-7 60'               | Soil          |                   | 6/11/2010 13:50        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-66         | WSB-7 70'               | Soil          |                   | 6/11/2010 14:00        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-67         | WSB-7 80'               | Soil          |                   | 6/11/2010 14:10        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-68         | WSB-7 90'               | Soil          |                   | 6/11/2010 14:30        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-69         | WSB-7 100'              | Soil          |                   | 6/11/2010 14:40        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-70         | WSB-7 110'              | Soil          |                   | 6/11/2010 14:50        | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-71         | Trip Blank 052410-13    | Water         |                   | 6/11/2010              | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-72         | Trip Blank 052810-59    | Water         |                   | 6/11/2010              | 6/15/2010 11:40      | <input type="checkbox"/> |
| 1006499-73         | Trip Blank 040810-36    | Water         |                   | 6/11/2010              | 6/15/2010 11:40      | <input type="checkbox"/> |



**Client:** Navajo Refining Company  
**Project:** Lea Refinery Soil Borings  
**Work Order:** 1006499

**Case Narrative**

Batch R92861, BTEX, Sample 1006499-29A: Surrogate failure for 1006499-29A; confirmed by reanalysis at dilution.

Batch R92863, BTEX, Sample 1006499-62A: Lowest practical dilution for 1006499-57A & 62A due to matrix.

Batch R92907, Method BTEX\_W, Sample 1006572-02AMSD: Toluene outside control limits for MSD. RPD within limits.

Batch R92907, Method BTEX\_W, Sample 1006572-02AMSD: Toluene outside control limits for MSD.

Batch R92887, BTEX, Sample 1006499-30A: Lowest practical dilution for 1006499-28A, 42A, 45A, 30A DUE TO MATRIX.

Batch R93007, Method BTEX\_W, Sample 1006437-06AMS: MS/MSD outside control limit & RPD limit for MTBE.

Batch R93007, Method BTEX\_W, Sample 1006437-06AMSD: 1st & 2nd CCV failed high for MTBE. NO hits reported in relevant samples.

Batch R93007, BTEX, Sample 1006499-51A: Lowest practical dilution for 1006499-51A, 46A, 52A due to matrix.

Batch R93037, Method BTEX\_W, Sample CCV: 2nd CCV failed high for MTBE. No hits reported in relevant samples.

Batch R93037, Method BTEX\_W, Sample BLCSW1-062310: Lowest practical dilution reported for 1006745-11A, 1006499-47A.

Batch R93159, Gasoline Range Organics, Sample 1006499-14B: Surrogate failure for 1006499-14A & 15A; confirmed by reanalysis at dilution.

Batch R93162, Gasoline Range Organics, Sample 1006499-29B: Surrogate failure for 1006499-29A; confirmed by reanalysis at dilution.

Batch R93163, Gasoline Range Organics, Sample 1006499-57B: Surrogate failure for 1006499-57A; confirmed by reanalysis at dilution.

Batch R93163, Gasoline Range Organics, Sample 1006499-57B: Surrogate failure for 1006499-57A; confirmed by reanalysis at dilution.

Batch 43777, TPH DRO/ORO, Sample 1006499-25B: Surrogate failing high-sample is ND-data ok to report

Batch 43777, TPH DRO/ORO, Sample 1006499-28B: Surrogate diluted out

Batch 43776, TPH DRO/ORO, Sample 1006499-15B: Surrogate diluted out

Batch 43783, TPH DRO/ORO, Sample 1006499-42B: Surrogate out of limits due to co-elution with sample matrix; DF1 confirms

Batch 43783, TPH DRO/ORO, Sample 1006499-43B: Surrogate diluted out

Batch 43783, TPH DRO/ORO, Sample 1006499-51B: Surrogate diluted out

Batch 43783, TPH DRO/ORO, Sample 1006499-52B: Surrogate diluted out

Batch 43783, TPH DRO/ORO, Sample 1006499-47B: Surrogate diluted out

Batch 43783, TPH DRO/ORO, Sample 1006499-44B: Surrogate diluted out

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**Client:** Navajo Refining Company  
**Project:** Lea Refinery Soil Borings  
**Work Order:** 1006499

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**Case Narrative**

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Batch 43783, TPH DRO/ORO, Sample 1006499-53B: Surrogate diluted out  
Batch 43783, TPH DRO/ORO, Sample 1006499-46B: Surrogate diluted out  
Batch 43783, TPH DRO/ORO, Sample 1006499-45B: Surrogate diluted out  
Batch 43783, TPH DRO/ORO, Sample 1006499-54B: Surrogate out of limits due to co-elution  
with sample matrix; DF1 confirms  
Batch 44178, Anions, Sample 1006499-70B: Chloride only reported in this analytical sequence

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-1 10'

Lab ID: 1006499-01

Collection Date: 6/8/2010 10:50 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 11:42 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 11:42 AM |
| Surr: 2-Fluorobiphenyl         | 114    |      | 70-130         | %REC  | 1                    | 6/17/2010 11:42 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/19/2010 05:39 AM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 70-130         | %REC  | 1                    | 6/19/2010 05:39 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 08:38 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 08:38 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 08:38 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/18/2010 08:38 PM |
| Surr: 4-Bromofluorobenzene     | 95.2   |      | 75-131         | %REC  | 1                    | 6/18/2010 08:38 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/18/2010 08:38 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 34.3   |      | 4.97           | mg/Kg | 1                    | 6/29/2010 10:25 AM |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                    | 6/29/2010 10:25 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
 Project: Lea Refinery Soil Borings  
 Sample ID: WSB-1 20'  
 Collection Date: 6/8/2010 11:00 AM

Work Order: 1006499  
 Lab ID: 1006499-02  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 01:00 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 01:00 PM |
| Surr: 2-Fluorobiphenyl         | 108    |      | 70-130         | %REC  | 1                    | 6/17/2010 01:00 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/19/2010 06:48 AM |
| Surr: 4-Bromofluorobenzene     | 104    |      | 70-130         | %REC  | 1                    | 6/19/2010 06:48 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 08:58 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 08:58 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 08:58 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/18/2010 08:58 PM |
| Surr: 4-Bromofluorobenzene     | 97.3   |      | 75-131         | %REC  | 1                    | 6/18/2010 08:58 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/18/2010 08:58 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 59.2   |      | 5.00           | mg/Kg | 1                    | 6/29/2010 11:09 AM |
| Surr: Selenate (surr)          | 107    |      | 85-115         | %REC  | 1                    | 6/29/2010 11:09 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery Soil Borings  
**Sample ID:** WSB-1 30'  
**Collection Date:** 6/8/2010 11:10 AM

**Work Order:** 1006499  
**Lab ID:** 1006499-03  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 01:19 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 01:19 PM |
| Surr: 2-Fluorobiphenyl         | 105    |      | 70-130         | %REC  | 1                    | 6/17/2010 01:19 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/19/2010 07:12 AM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 70-130         | %REC  | 1                    | 6/19/2010 07:12 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 09:18 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 09:18 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 09:18 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/18/2010 09:18 PM |
| Surr: 4-Bromofluorobenzene     | 94.6   |      | 75-131         | %REC  | 1                    | 6/18/2010 09:18 PM |
| Surr: Trifluorotoluene         | 99.4   |      | 73-130         | %REC  | 1                    | 6/18/2010 09:18 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 7.82   |      | 4.98           | mg/Kg | 1                    | 6/29/2010 11:23 AM |
| Surr: Selenate (surr)          | 105    |      | 85-115         | %REC  | 1                    | 6/29/2010 11:23 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-1 40'

Lab ID: 1006499-04

Collection Date: 6/8/2010 11:20 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor             | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                             |                     |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: <b>6/16/2010</b> | Analyst: <b>KMB</b> |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                           | 6/17/2010 01:38 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                           | 6/17/2010 01:38 PM  |
| Surr: 2-Fluorobiphenyl         | 83.9   |      | 70-130         | %REC  | 1                           | 6/17/2010 01:38 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                             |                     |
|                                |        |      | <b>SW8015</b>  |       |                             | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                           | 6/19/2010 07:35 AM  |
| Surr: 4-Bromofluorobenzene     | 107    |      | 70-130         | %REC  | 1                           | 6/19/2010 07:35 AM  |
| <b>BTEX</b>                    |        |      |                |       |                             |                     |
|                                |        |      | <b>SW8021B</b> |       |                             | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                           | 6/18/2010 09:38 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                           | 6/18/2010 09:38 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                           | 6/18/2010 09:38 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                           | 6/18/2010 09:38 PM  |
| Surr: 4-Bromofluorobenzene     | 97.3   |      | 75-131         | %REC  | 1                           | 6/18/2010 09:38 PM  |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                           | 6/18/2010 09:38 PM  |
| <b>ANIONS</b>                  |        |      |                |       |                             |                     |
|                                |        |      | <b>E300</b>    |       | Prep Date: <b>6/28/2010</b> | Analyst: <b>DM</b>  |
| Chloride                       | 37.0   |      | 4.97           | mg/Kg | 1                           | 6/29/2010 11:38 AM  |
| Surr: Selenate (surr)          | 106    |      | 85-115         | %REC  | 1                           | 6/29/2010 11:38 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery Soil Borings  
**Sample ID:** WSB-1 50'  
**Collection Date:** 6/8/2010 11:25 AM

**Work Order:** 1006499  
**Lab ID:** 1006499-05  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 02:17 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 02:17 PM |
| Surr: 2-Fluorobiphenyl         | 98.8   |      | 70-130         | %REC  | 1                    | 6/17/2010 02:17 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/19/2010 07:58 AM |
| Surr: 4-Bromofluorobenzene     | 104    |      | 70-130         | %REC  | 1                    | 6/19/2010 07:58 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 09:58 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 09:58 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 09:58 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/18/2010 09:58 PM |
| Surr: 4-Bromofluorobenzene     | 96.3   |      | 75-131         | %REC  | 1                    | 6/18/2010 09:58 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 6/18/2010 09:58 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 25.4   |      | 5.00           | mg/Kg | 1                    | 6/29/2010 11:52 AM |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                    | 6/29/2010 11:52 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 06-Jul-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery Soil Borings  
**Sample ID:** WSB-1 60'  
**Collection Date:** 6/8/2010 11:35 AM

**Work Order:** 1006499  
**Lab ID:** 1006499-06  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 02:36 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 02:36 PM |
| Surr: 2-Fluorobiphenyl         | 98.6   |      | 70-130         | %REC  | 1                    | 6/17/2010 02:36 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/19/2010 08:21 AM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 70-130         | %REC  | 1                    | 6/19/2010 08:21 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 10:18 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 10:18 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 10:18 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/18/2010 10:18 PM |
| Surr: 4-Bromofluorobenzene     | 96.5   |      | 75-131         | %REC  | 1                    | 6/18/2010 10:18 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 6/18/2010 10:18 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 6.70   |      | 5.00           | mg/Kg | 1                    | 6/29/2010 03:49 PM |
| Surr: Selenate (surr)          | 107    |      | 85-115         | %REC  | 1                    | 6/29/2010 03:49 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
 Project: Lea Refinery Soil Borings  
 Sample ID: WSB-1 70'  
 Collection Date: 6/8/2010 11:45 AM

Work Order: 1006499  
 Lab ID: 1006499-07  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 04:16 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 04:16 PM |
| Surr: 2-Fluorobiphenyl         | 94.6   |      | 70-130         | %REC  | 1                    | 6/17/2010 04:16 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/19/2010 08:45 AM |
| Surr: 4-Bromofluorobenzene     | 98.6   |      | 70-130         | %REC  | 1                    | 6/19/2010 08:45 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 11:58 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 11:58 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/18/2010 11:58 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/18/2010 11:58 PM |
| Surr: 4-Bromofluorobenzene     | 98.0   |      | 75-131         | %REC  | 1                    | 6/18/2010 11:58 PM |
| Surr: Trifluorotoluene         | 106    |      | 73-130         | %REC  | 1                    | 6/18/2010 11:58 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 5.00           | mg/Kg | 1                    | 6/29/2010 04:04 PM |
| Surr: Selenate (surr)          | 97.5   |      | 85-115         | %REC  | 1                    | 6/29/2010 04:04 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-1 80'

Lab ID: 1006499-08

Collection Date: 6/8/2010 12:45 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 03:54 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 03:54 PM |
| Surr: 2-Fluorobiphenyl         | 98.8   |      | 70-130         | %REC  | 1                    | 6/17/2010 03:54 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/21/2010 06:02 PM |
| Surr: 4-Bromofluorobenzene     | 112    |      | 70-130         | %REC  | 1                    | 6/21/2010 06:02 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 12:17 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 12:17 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 12:17 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 12:17 AM |
| Surr: 4-Bromofluorobenzene     | 98.3   |      | 75-131         | %REC  | 1                    | 6/19/2010 12:17 AM |
| Surr: Trifluorotoluene         | 104    |      | 73-130         | %REC  | 1                    | 6/19/2010 12:17 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 8.56   |      | 4.95           | mg/Kg | 1                    | 6/29/2010 04:18 PM |
| Surr: Selenate (surr)          | 107    |      | 85-115         | %REC  | 1                    | 6/29/2010 04:18 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
Project: Lea Refinery Soil Borings  
Sample ID: WSB-1 90'  
Collection Date: 6/8/2010 12:55 PM

Work Order: 1006499  
Lab ID: 1006499-09  
Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 11:03 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 11:03 AM |
| Surr: 2-Fluorobiphenyl         | 116    |      | 70-130         | %REC  | 1                    | 6/17/2010 11:03 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/21/2010 06:25 PM |
| Surr: 4-Bromofluorobenzene     | 113    |      | 70-130         | %REC  | 1                    | 6/21/2010 06:25 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 12:37 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 12:37 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 12:37 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 12:37 AM |
| Surr: 4-Bromofluorobenzene     | 97.1   |      | 75-131         | %REC  | 1                    | 6/19/2010 12:37 AM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                    | 6/19/2010 12:37 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 4.96           | mg/Kg | 1                    | 6/29/2010 04:33 PM |
| Surr: Selenate (surr)          | 100    |      | 85-115         | %REC  | 1                    | 6/29/2010 04:33 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 06-Jul-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery Soil Borings  
**Sample ID:** WSB-1 100'  
**Collection Date:** 6/8/2010 01:05 PM

**Work Order:** 1006499  
**Lab ID:** 1006499-10  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 11:23 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 11:23 AM |
| Surr: 2-Fluorobiphenyl         | 111    |      | 70-130         | %REC  | 1                    | 6/17/2010 11:23 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/21/2010 06:49 PM |
| Surr: 4-Bromofluorobenzene     | 111    |      | 70-130         | %REC  | 1                    | 6/21/2010 06:49 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 12:57 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 12:57 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 12:57 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 12:57 AM |
| Surr: 4-Bromofluorobenzene     | 96.7   |      | 75-131         | %REC  | 1                    | 6/19/2010 12:57 AM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/19/2010 12:57 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 5.74   |      | 4.98           | mg/Kg | 1                    | 6/29/2010 04:48 PM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/29/2010 04:48 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-1 110'

Lab ID: 1006499-11

Collection Date: 6/8/2010 01:15 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 11:42 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 11:42 AM |
| Surr: 2-Fluorobiphenyl         | 116    |      | 70-130         | %REC  | 1                    | 6/17/2010 11:42 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/21/2010 07:12 PM |
| Surr: 4-Bromofluorobenzene     | 112    |      | 70-130         | %REC  | 1                    | 6/21/2010 07:12 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 01:17 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 01:17 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 01:17 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 01:17 AM |
| Surr: 4-Bromofluorobenzene     | 92.3   |      | 75-131         | %REC  | 1                    | 6/19/2010 01:17 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 6/19/2010 01:17 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 33.7   |      | 4.98           | mg/Kg | 1                    | 6/29/2010 05:02 PM |
| Surr: Selenate (surr)          | 107    |      | 85-115         | %REC  | 1                    | 6/29/2010 05:02 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-2 10'

Collection Date: 6/9/2010 07:15 AM

Work Order: 1006499

Lab ID: 1006499-12

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 12:02 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 12:02 PM |
| Surr: 2-Fluorobiphenyl         | 112    |      | 70-130         | %REC  | 1                    | 6/17/2010 12:02 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/21/2010 07:35 PM |
| Surr: 4-Bromofluorobenzene     | 115    |      | 70-130         | %REC  | 1                    | 6/21/2010 07:35 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 01:37 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 01:37 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 01:37 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 01:37 AM |
| Surr: 4-Bromofluorobenzene     | 97.5   |      | 75-131         | %REC  | 1                    | 6/19/2010 01:37 AM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                    | 6/19/2010 01:37 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 6.21   |      | 4.96           | mg/Kg | 1                    | 6/29/2010 06:19 PM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/29/2010 06:19 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
 Project: Lea Refinery Soil Borings  
 Sample ID: WSB-2 20'  
 Collection Date: 6/9/2010 07:25 AM

Work Order: 1006499  
 Lab ID: 1006499-13  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 2.2    |      | 1.7            | mg/Kg | 1                    | 6/17/2010 12:21 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 12:21 PM |
| Surr: 2-Fluorobiphenyl         | 108    |      | 70-130         | %REC  | 1                    | 6/17/2010 12:21 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/21/2010 07:59 PM |
| Surr: 4-Bromofluorobenzene     | 115    |      | 70-130         | %REC  | 1                    | 6/21/2010 07:59 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 01:57 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 01:57 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 01:57 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 01:57 AM |
| Surr: 4-Bromofluorobenzene     | 95.5   |      | 75-131         | %REC  | 1                    | 6/19/2010 01:57 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 6/19/2010 01:57 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 9.37   |      | 5.00           | mg/Kg | 1                    | 6/29/2010 05:31 PM |
| Surr: Selenate (surr)          | 112    |      | 85-115         | %REC  | 1                    | 6/29/2010 05:31 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
 Project: Lea Refinery Soil Borings  
 Sample ID: WSB-2 30'  
 Collection Date: 6/9/2010 08:20 AM

Work Order: 1006499  
 Lab ID: 1006499-14  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 210    |      | 17             | mg/Kg | 10                   | 6/29/2010 01:23 PM |
| TPH (Motor Oil Range)          | 110    |      | 34             | mg/Kg | 10                   | 6/29/2010 01:23 PM |
| Surr: 2-Fluorobiphenyl         | 101    |      | 70-130         | %REC  | 10                   | 6/29/2010 01:23 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 1.5    |      | 0.050          | mg/Kg | 1                    | 6/21/2010 08:22 PM |
| Surr: 4-Bromofluorobenzene     | 137    | S    | 70-130         | %REC  | 1                    | 6/21/2010 08:22 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:17 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:17 AM |
| Ethylbenzene                   | 0.0056 |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:17 AM |
| Xylenes, Total                 | 0.0074 |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 02:17 AM |
| Surr: 4-Bromofluorobenzene     | 104    |      | 75-131         | %REC  | 1                    | 6/19/2010 02:17 AM |
| Surr: Trifluorotoluene         | 94.6   |      | 73-130         | %REC  | 1                    | 6/19/2010 02:17 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 14.0   |      | 4.97           | mg/Kg | 1                    | 6/29/2010 05:46 PM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/29/2010 05:46 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
Project: Lea Refinery Soil Borings  
Sample ID: WSB-2 40'  
Collection Date: 6/9/2010 08:30 AM

Work Order: 1006499  
Lab ID: 1006499-15  
Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 810    |      | 42             | mg/Kg | 25                   | 6/29/2010 01:23 PM |
| TPH (Motor Oil Range)          | 260    |      | 85             | mg/Kg | 25                   | 6/29/2010 01:23 PM |
| Surr: 2-Fluorobiphenyl         | 0      | S    | 70-130         | %REC  | 25                   | 6/29/2010 01:23 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 4.0    |      | 0.050          | mg/Kg | 1                    | 6/21/2010 08:45 PM |
| Surr: 4-Bromofluorobenzene     | 176    | S    | 70-130         | %REC  | 1                    | 6/21/2010 08:45 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:37 AM |
| Toluene                        | 0.0017 |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:37 AM |
| Ethylbenzene                   | 0.083  |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:37 AM |
| Xylenes, Total                 | 0.063  |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 02:37 AM |
| Surr: 4-Bromofluorobenzene     | 113    |      | 75-131         | %REC  | 1                    | 6/19/2010 02:37 AM |
| Surr: Trifluorotoluene         | 104    |      | 73-130         | %REC  | 1                    | 6/19/2010 02:37 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 15.7   |      | 4.99           | mg/Kg | 1                    | 6/29/2010 06:00 PM |
| Surr: Selenate (surr)          | 105    |      | 85-115         | %REC  | 1                    | 6/29/2010 06:00 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
 Project: Lea Refinery Soil Borings  
 Sample ID: WSB-3 10'  
 Collection Date: 6/9/2010 09:20 AM

Work Order: 1006499  
 Lab ID: 1006499-16  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 01:19 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 01:19 PM |
| Surr: 2-Fluorobiphenyl         | 109    |      | 70-130         | %REC  | 1                    | 6/17/2010 01:19 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/21/2010 09:09 PM |
| Surr: 4-Bromofluorobenzene     | 117    |      | 70-130         | %REC  | 1                    | 6/21/2010 09:09 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:57 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:57 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:57 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 02:57 AM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 75-131         | %REC  | 1                    | 6/19/2010 02:57 AM |
| Surr: Trifluorotoluene         | 107    |      | 73-130         | %REC  | 1                    | 6/19/2010 02:57 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 4.98           | mg/Kg | 1                    | 6/29/2010 07:03 PM |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/29/2010 07:03 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 06-Jul-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery Soil Borings  
**Sample ID:** WSB-3 20'  
**Collection Date:** 6/9/2010 09:30 AM

**Work Order:** 1006499  
**Lab ID:** 1006499-17  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 01:38 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 01:38 PM |
| Surr: 2-Fluorobiphenyl         | 103    |      | 70-130         | %REC  | 1                    | 6/17/2010 01:38 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/21/2010 09:32 PM |
| Surr: 4-Bromofluorobenzene     | 113    |      | 70-130         | %REC  | 1                    | 6/21/2010 09:32 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 03:57 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 03:57 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 03:57 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 03:57 AM |
| Surr: 4-Bromofluorobenzene     | 96.1   |      | 75-131         | %REC  | 1                    | 6/19/2010 03:57 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 6/19/2010 03:57 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 4.97           | mg/Kg | 1                    | 6/29/2010 07:17 PM |
| Surr: Selenate (surr)          | 95.0   |      | 85-115         | %REC  | 1                    | 6/29/2010 07:17 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-3 30'

Lab ID: 1006499-18

Collection Date: 6/9/2010 09:40 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 01:58 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 01:58 PM |
| Surr: 2-Fluorobiphenyl         | 125    |      | 70-130         | %REC  | 1                    | 6/17/2010 01:58 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/21/2010 10:19 PM |
| Surr: 4-Bromofluorobenzene     | 112    |      | 70-130         | %REC  | 1                    | 6/21/2010 10:19 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 04:17 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 04:17 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 04:17 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 04:17 AM |
| Surr: 4-Bromofluorobenzene     | 94.0   |      | 75-131         | %REC  | 1                    | 6/19/2010 04:17 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 6/19/2010 04:17 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 4.95           | mg/Kg | 1                    | 6/29/2010 07:32 PM |
| Surr: Selenate (surr)          | 96.3   |      | 85-115         | %REC  | 1                    | 6/29/2010 07:32 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-3 40'

Collection Date: 6/9/2010 09:50 AM

Work Order: 1006499

Lab ID: 1006499-19

Matrix: SOIL

| Analyses                       | Result     | Qual | Report Limit   | Units        | Dilution Factor      | Date Analyzed      |
|--------------------------------|------------|------|----------------|--------------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |            |      |                |              |                      |                    |
|                                |            |      | <b>SW8015M</b> |              | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND         |      | 1.7            | mg/Kg        | 1                    | 6/17/2010 02:17 PM |
| <b>TPH (Motor Oil Range)</b>   | <b>4.2</b> |      | <b>3.4</b>     | <b>mg/Kg</b> | 1                    | 6/17/2010 02:17 PM |
| Surr: 2-Fluorobiphenyl         | 97.7       |      | 70-130         | %REC         | 1                    | 6/17/2010 02:17 PM |
| <b>GASOLINE RANGE ORGANICS</b> |            |      |                |              |                      |                    |
|                                |            |      | <b>SW8015</b>  |              |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND         |      | 0.050          | mg/Kg        | 1                    | 6/21/2010 10:42 PM |
| Surr: 4-Bromofluorobenzene     | 117        |      | 70-130         | %REC         | 1                    | 6/21/2010 10:42 PM |
| <b>BTEX</b>                    |            |      |                |              |                      |                    |
|                                |            |      | <b>SW8021B</b> |              |                      | Analyst: KKP       |
| Benzene                        | ND         |      | 0.0010         | mg/Kg        | 1                    | 6/19/2010 04:37 AM |
| Toluene                        | ND         |      | 0.0010         | mg/Kg        | 1                    | 6/19/2010 04:37 AM |
| Ethylbenzene                   | ND         |      | 0.0010         | mg/Kg        | 1                    | 6/19/2010 04:37 AM |
| Xylenes, Total                 | ND         |      | 0.0030         | mg/Kg        | 1                    | 6/19/2010 04:37 AM |
| Surr: 4-Bromofluorobenzene     | 97.0       |      | 75-131         | %REC         | 1                    | 6/19/2010 04:37 AM |
| Surr: Trifluorotoluene         | 101        |      | 73-130         | %REC         | 1                    | 6/19/2010 04:37 AM |
| <b>ANIONS</b>                  |            |      |                |              |                      |                    |
|                                |            |      | <b>E300</b>    |              | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | ND         |      | 4.96           | mg/Kg        | 1                    | 6/29/2010 07:46 PM |
| Surr: Selenate (surr)          | 97.0       |      | 85-115         | %REC         | 1                    | 6/29/2010 07:46 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-3 50'

Collection Date: 6/9/2010 10:00 AM

Work Order: 1006499

Lab ID: 1006499-20

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 02:36 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 02:36 PM |
| Surr: 2-Fluorobiphenyl         | 118    |      | 70-130         | %REC  | 1                    | 6/17/2010 02:36 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/21/2010 11:05 PM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 70-130         | %REC  | 1                    | 6/21/2010 11:05 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 04:56 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 04:56 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 04:56 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 04:56 AM |
| Surr: 4-Bromofluorobenzene     | 94.3   |      | 75-131         | %REC  | 1                    | 6/19/2010 04:56 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 6/19/2010 04:56 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 6.57   |      | 4.97           | mg/Kg | 1                    | 6/30/2010 08:23 AM |
| Surr: Selenate (surr)          | 95.6   |      | 85-115         | %REC  | 1                    | 6/30/2010 08:23 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-3 60'

Lab ID: 1006499-21

Collection Date: 6/9/2010 10:10 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 04:16 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 04:16 PM |
| Surr: 2-Fluorobiphenyl         | 98.2   |      | 70-130         | %REC  | 1                    | 6/17/2010 04:16 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/21/2010 11:28 PM |
| Surr: 4-Bromofluorobenzene     | 113    |      | 70-130         | %REC  | 1                    | 6/21/2010 11:28 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 06:36 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 06:36 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 06:36 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 06:36 AM |
| Surr: 4-Bromofluorobenzene     | 96.5   |      | 75-131         | %REC  | 1                    | 6/19/2010 06:36 AM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/19/2010 06:36 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 10.9   |      | 5.00           | mg/Kg | 1                    | 6/30/2010 01:33 PM |
| Surr: Selenate (surr)          | 107    |      | 85-115         | %REC  | 1                    | 6/30/2010 01:33 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-3 70'

Collection Date: 6/9/2010 10:20 AM

Work Order: 1006499

Lab ID: 1006499-22

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 05:14 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 05:14 PM |
| Surr: 2-Fluorobiphenyl         | 109    |      | 70-130         | %REC  | 1                    | 6/17/2010 05:14 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/21/2010 11:52 PM |
| Surr: 4-Bromofluorobenzene     | 107    |      | 70-130         | %REC  | 1                    | 6/21/2010 11:52 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 06:56 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 06:56 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 06:56 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 06:56 AM |
| Surr: 4-Bromofluorobenzene     | 97.7   |      | 75-131         | %REC  | 1                    | 6/19/2010 06:56 AM |
| Surr: Trifluorotoluene         | 104    |      | 73-130         | %REC  | 1                    | 6/19/2010 06:56 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 11.9   |      | 4.97           | mg/Kg | 1                    | 6/30/2010 01:50 AM |
| Surr: Selenate (surr)          | 108    |      | 85-115         | %REC  | 1                    | 6/30/2010 01:50 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-3 80'

Collection Date: 6/9/2010 10:40 AM

Work Order: 1006499

Lab ID: 1006499-23

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 05:33 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 05:33 PM |
| Surr: 2-Fluorobiphenyl         | 102    |      | 70-130         | %REC  | 1                    | 6/17/2010 05:33 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/22/2010 12:15 AM |
| Surr: 4-Bromofluorobenzene     | 116    |      | 70-130         | %REC  | 1                    | 6/22/2010 12:15 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 07:16 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 07:16 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 07:16 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 07:16 AM |
| Surr: 4-Bromofluorobenzene     | 97.8   |      | 75-131         | %REC  | 1                    | 6/19/2010 07:16 AM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/19/2010 07:16 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 12.2   |      | 4.99           | mg/Kg | 1                    | 6/30/2010 02:05 AM |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                    | 6/30/2010 02:05 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-3 90'

Collection Date: 6/9/2010 10:50 AM

Work Order: 1006499

Lab ID: 1006499-24

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|--------------|--------------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                      |                    |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Motor Oil Range)          | ND     |      |              | 3.4 mg/Kg    | 1                    | 6/17/2010 05:53 PM |
| Surr: 2-Fluorobiphenyl         | 99.0   |      | 70-130 %REC  |              | 1                    | 6/17/2010 05:53 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                      |                    |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1                    | Analyst: KKP       |
| Surr: 4-Bromofluorobenzene     | 114    |      | 70-130 %REC  |              | 1                    | 6/22/2010 12:38 AM |
| <b>BTEX</b>                    |        |      |              |              |                      |                    |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1                    | Analyst: KKP       |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1                    | 6/19/2010 07:36 AM |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1                    | 6/19/2010 07:36 AM |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1                    | 6/19/2010 07:36 AM |
| Surr: 4-Bromofluorobenzene     | 93.9   |      | 75-131 %REC  |              | 1                    | 6/19/2010 07:36 AM |
| Surr: Trifluorotoluene         | 98.1   |      | 73-130 %REC  |              | 1                    | 6/19/2010 07:36 AM |
| <b>ANIONS</b>                  |        |      |              |              |                      |                    |
| Chloride                       | 43.8   |      | E300         | 4.97 mg/Kg   | Prep Date: 6/28/2010 | Analyst: DM        |
| Surr: Selenate (surr)          | 106    |      | 85-115 %REC  |              | 1                    | 6/30/2010 02:19 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-3 100'

Lab ID: 1006499-25

Collection Date: 6/9/2010 11:05 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 06:12 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 06:12 PM |
| Surr: 2-Fluorobiphenyl         | 134    | S    | 70-130         | %REC  | 1                    | 6/17/2010 06:12 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/22/2010 01:02 AM |
| Surr: 4-Bromofluorobenzene     | 111    |      | 70-130         | %REC  | 1                    | 6/22/2010 01:02 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 07:56 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 07:56 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 07:56 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 07:56 AM |
| Surr: 4-Bromofluorobenzene     | 95.5   |      | 75-131         | %REC  | 1                    | 6/19/2010 07:56 AM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/19/2010 07:56 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 40.0   |      | 4.99           | mg/Kg | 1                    | 6/30/2010 02:34 AM |
| Surr: Selenate (surr)          | 98.4   |      | 85-115         | %REC  | 1                    | 6/30/2010 02:34 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
Project: Lea Refinery Soil Borings  
Sample ID: WSB-3 110'  
Collection Date: 6/9/2010 11:15 AM

Work Order: 1006499  
Lab ID: 1006499-26  
Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 06:31 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 06:31 PM |
| Surr: 2-Fluorobiphenyl         | 116    |      | 70-130         | %REC  | 1                    | 6/17/2010 06:31 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/22/2010 03:22 AM |
| Surr: 4-Bromofluorobenzene     | 116    |      | 70-130         | %REC  | 1                    | 6/22/2010 03:22 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 08:16 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 08:16 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 08:16 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 08:16 AM |
| Surr: 4-Bromofluorobenzene     | 92.4   |      | 75-131         | %REC  | 1                    | 6/19/2010 08:16 AM |
| Surr: Trifluorotoluene         | 100    |      | 73-130         | %REC  | 1                    | 6/19/2010 08:16 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 13.7   |      | 4.98           | mg/Kg | 1                    | 6/30/2010 03:04 PM |
| Surr: Selenate (surr)          | 89.0   |      | 85-115         | %REC  | 1                    | 6/30/2010 03:04 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
 Project: Lea Refinery Soil Borings  
 Sample ID: WSB-4 10'  
 Collection Date: 6/9/2010 01:30 PM

Work Order: 1006499  
 Lab ID: 1006499-27  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 06:51 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 06:51 PM |
| Surr: 2-Fluorobiphenyl         | 116    |      | 70-130         | %REC  | 1                    | 6/17/2010 06:51 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/22/2010 03:45 AM |
| Surr: 4-Bromofluorobenzene     | 114    |      | 70-130         | %REC  | 1                    | 6/22/2010 03:45 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:35 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:35 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:35 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 09:35 AM |
| Surr: 4-Bromofluorobenzene     | 92.9   |      | 75-131         | %REC  | 1                    | 6/19/2010 09:35 AM |
| Surr: Trifluorotoluene         | 98.4   |      | 73-130         | %REC  | 1                    | 6/19/2010 09:35 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 5.00           | mg/Kg | 1                    | 6/30/2010 03:32 AM |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                    | 6/30/2010 03:32 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
Project: Lea Refinery Soil Borings  
Sample ID: WSB-4 20'  
Collection Date: 6/9/2010 01:40 PM

Work Order: 1006499  
Lab ID: 1006499-28  
Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|----------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                     |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: <b>KMB</b> |
| TPH (Diesel Range)             | 1,600  |      | 85             | mg/Kg | 50                   | 6/29/2010 11:51 AM  |
| TPH (Motor Oil Range)          | 690    |      | 170            | mg/Kg | 50                   | 6/29/2010 11:51 AM  |
| Surr: 2-Fluorobiphenyl         | 0      | S    | 70-130         | %REC  | 50                   | 6/29/2010 11:51 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                     |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | 270    |      | 62             | mg/Kg | 1250                 | 6/23/2010 03:04 PM  |
| Surr: 4-Bromofluorobenzene     | 87.9   |      | 70-130         | %REC  | 1250                 | 6/23/2010 03:04 PM  |
| <b>BTEX</b>                    |        |      |                |       |                      |                     |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.25           | mg/Kg | 250                  | 6/22/2010 03:17 AM  |
| Toluene                        | ND     |      | 0.25           | mg/Kg | 250                  | 6/22/2010 03:17 AM  |
| Ethylbenzene                   | 6.8    |      | 0.25           | mg/Kg | 250                  | 6/22/2010 03:17 AM  |
| Xylenes, Total                 | 11     |      | 0.75           | mg/Kg | 250                  | 6/22/2010 03:17 AM  |
| Surr: 4-Bromofluorobenzene     | 113    |      | 75-131         | %REC  | 250                  | 6/22/2010 03:17 AM  |
| Surr: Trifluorotoluene         | 86.6   |      | 73-130         | %REC  | 250                  | 6/22/2010 03:17 AM  |
| <b>ANIONS</b>                  |        |      |                |       |                      |                     |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: <b>DM</b>  |
| Chloride                       | 5.66   |      | 4.99           | mg/Kg | 1                    | 6/30/2010 03:47 AM  |
| Surr: Selenate (surr)          | 105    |      | 85-115         | %REC  | 1                    | 6/30/2010 03:47 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
 Project: Lea Refinery Soil Borings  
 Sample ID: WSB-5 10'  
 Collection Date: 6/9/2010 02:30 PM

Work Order: 1006499  
 Lab ID: 1006499-29  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 190    |      | 8.5            | mg/Kg | 5                    | 6/29/2010 11:51 AM |
| TPH (Motor Oil Range)          | 130    |      | 17             | mg/Kg | 5                    | 6/29/2010 11:51 AM |
| Surr: 2-Fluorobiphenyl         | 72.3   |      | 70-130         | %REC  | 5                    | 6/29/2010 11:51 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 5.3    |      | 0.050          | mg/Kg | 1                    | 6/22/2010 06:52 AM |
| Surr: 4-Bromofluorobenzene     | 316    | S    | 70-130         | %REC  | 1                    | 6/22/2010 06:52 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:55 AM |
| Toluene                        | 0.0017 |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:55 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:55 AM |
| Xylenes, Total                 | 0.033  |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 09:55 AM |
| Surr: 4-Bromofluorobenzene     | 270    | S    | 75-131         | %REC  | 1                    | 6/19/2010 09:55 AM |
| Surr: Trifluorotoluene         | 93.2   |      | 73-130         | %REC  | 1                    | 6/19/2010 09:55 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 14.6   |      | 4.96           | mg/Kg | 1                    | 6/30/2010 04:01 AM |
| Surr: Selenate (surr)          | 105    |      | 85-115         | %REC  | 1                    | 6/30/2010 04:01 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-5 20'

Lab ID: 1006499-30

Collection Date: 6/9/2010 02:40 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 480    |      | 17             | mg/Kg | 10                   | 6/29/2010 11:32 AM |
| TPH (Motor Oil Range)          | 130    |      | 34             | mg/Kg | 10                   | 6/29/2010 11:32 AM |
| Surr: 2-Fluorobiphenyl         | 129    |      | 70-130         | %REC  | 10                   | 6/29/2010 11:32 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 140    |      | 62             | mg/Kg | 1250                 | 6/23/2010 03:51 PM |
| Surr: 4-Bromofluorobenzene     | 88.3   |      | 70-130         | %REC  | 1250                 | 6/23/2010 03:51 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.25           | mg/Kg | 250                  | 6/22/2010 04:32 AM |
| Toluene                        | 0.53   |      | 0.25           | mg/Kg | 250                  | 6/22/2010 04:32 AM |
| Ethylbenzene                   | 6.3    |      | 0.25           | mg/Kg | 250                  | 6/22/2010 04:32 AM |
| Xylenes, Total                 | 13     |      | 0.75           | mg/Kg | 250                  | 6/22/2010 04:32 AM |
| Surr: 4-Bromofluorobenzene     | 93.7   |      | 75-131         | %REC  | 250                  | 6/22/2010 04:32 AM |
| Surr: Trifluorotoluene         | 85.8   |      | 73-130         | %REC  | 250                  | 6/22/2010 04:32 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 27.0   |      | 5.00           | mg/Kg | 1                    | 6/30/2010 04:16 AM |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                    | 6/30/2010 04:16 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-6 10'

Lab ID: 1006499-31

Collection Date: 6/10/2010 07:00 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 08:47 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 08:47 PM |
| Surr: 2-Fluorobiphenyl         | 93.6   |      | 70-130         | %REC  | 1                    | 6/17/2010 08:47 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/22/2010 04:08 AM |
| Surr: 4-Bromofluorobenzene     | 115    |      | 70-130         | %REC  | 1                    | 6/22/2010 04:08 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:07 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:07 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:07 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 02:07 PM |
| Surr: 4-Bromofluorobenzene     | 90.8   |      | 75-131         | %REC  | 1                    | 6/19/2010 02:07 PM |
| Surr: Trifluorotoluene         | 93.7   |      | 73-130         | %REC  | 1                    | 6/19/2010 02:07 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 67.3   |      | 4.99           | mg/Kg | 1                    | 6/30/2010 04:30 AM |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                    | 6/30/2010 04:30 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-6 20'

Lab ID: 1006499-32

Collection Date: 6/10/2010 07:10 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 09:07 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 09:07 PM |
| Surr: 2-Fluorobiphenyl         | 101    |      | 70-130         | %REC  | 1                    | 6/17/2010 09:07 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/22/2010 04:32 AM |
| Surr: 4-Bromofluorobenzene     | 115    |      | 70-130         | %REC  | 1                    | 6/22/2010 04:32 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:27 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:27 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:27 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 02:27 PM |
| Surr: 4-Bromofluorobenzene     | 93.2   |      | 75-131         | %REC  | 1                    | 6/19/2010 02:27 PM |
| Surr: Trifluorotoluene         | 93.5   |      | 73-130         | %REC  | 1                    | 6/19/2010 02:27 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 65.8   |      | 4.94           | mg/Kg | 1                    | 6/30/2010 02:02 PM |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                    | 6/30/2010 02:02 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-6 30'

Collection Date: 6/10/2010 07:20 AM

Work Order: 1006499

Lab ID: 1006499-33

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 09:26 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 09:26 PM |
| Surr: 2-Fluorobiphenyl         | 124    |      | 70-130         | %REC  | 1                    | 6/17/2010 09:26 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/22/2010 04:55 AM |
| Surr: 4-Bromofluorobenzene     | 116    |      | 70-130         | %REC  | 1                    | 6/22/2010 04:55 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:47 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:47 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 02:47 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 02:47 PM |
| Surr: 4-Bromofluorobenzene     | 89.9   |      | 75-131         | %REC  | 1                    | 6/19/2010 02:47 PM |
| Surr: Trifluorotoluene         | 94.7   |      | 73-130         | %REC  | 1                    | 6/19/2010 02:47 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 19.1   |      | 4.95           | mg/Kg | 1                    | 6/30/2010 04:59 AM |
| Surr: Selenate (surr)          | 100    |      | 85-115         | %REC  | 1                    | 6/30/2010 04:59 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-6 40'

Collection Date: 6/10/2010 07:30 AM

Work Order: 1006499

Lab ID: 1006499-34

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 09:45 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 09:45 PM |
| Surr: 2-Fluorobiphenyl         | 124    |      | 70-130         | %REC  | 1                    | 6/17/2010 09:45 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/22/2010 05:18 AM |
| Surr: 4-Bromofluorobenzene     | 109    |      | 70-130         | %REC  | 1                    | 6/22/2010 05:18 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 03:07 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 03:07 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 03:07 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 03:07 PM |
| Surr: 4-Bromofluorobenzene     | 95.5   |      | 75-131         | %REC  | 1                    | 6/19/2010 03:07 PM |
| Surr: Trifluorotoluene         | 95.8   |      | 73-130         | %REC  | 1                    | 6/19/2010 03:07 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 42.0   |      | 4.96           | mg/Kg | 1                    | 6/30/2010 05:14 AM |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/30/2010 05:14 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-6 50'

Lab ID: 1006499-35

Collection Date: 6/10/2010 07:50 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 10:05 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 10:05 PM |
| Surr: 2-Fluorobiphenyl         | 102    |      | 70-130         | %REC  | 1                    | 6/17/2010 10:05 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/22/2010 10:26 PM |
| Surr: 4-Bromofluorobenzene     | 78.7   |      | 70-130         | %REC  | 1                    | 6/22/2010 10:26 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 03:27 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 03:27 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 03:27 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 03:27 PM |
| Surr: 4-Bromofluorobenzene     | 95.1   |      | 75-131         | %REC  | 1                    | 6/19/2010 03:27 PM |
| Surr: Trifluorotoluene         | 95.3   |      | 73-130         | %REC  | 1                    | 6/19/2010 03:27 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 47.9   |      | 4.97           | mg/Kg | 1                    | 6/30/2010 02:17 PM |
| Surr: Selenate (surr)          | 92.1   |      | 85-115         | %REC  | 1                    | 6/30/2010 02:17 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-6 60'

Lab ID: 1006499-36

Collection Date: 6/10/2010 08:00 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 10:24 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 10:24 PM |
| Surr: 2-Fluorobiphenyl         | 107    |      | 70-130         | %REC  | 1                    | 6/17/2010 10:24 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/22/2010 10:50 PM |
| Surr: 4-Bromofluorobenzene     | 81.4   |      | 70-130         | %REC  | 1                    | 6/22/2010 10:50 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 03:47 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 03:47 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 03:47 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 03:47 PM |
| Surr: 4-Bromofluorobenzene     | 90.3   |      | 75-131         | %REC  | 1                    | 6/19/2010 03:47 PM |
| Surr: Trifluorotoluene         | 94.0   |      | 73-130         | %REC  | 1                    | 6/19/2010 03:47 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 58.0   |      | 4.95           | mg/Kg | 1                    | 6/30/2010 04:08 PM |
| Surr: Selenate (surr)          | 99.6   |      | 85-115         | %REC  | 1                    | 6/30/2010 04:08 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery Soil Borings  
**Sample ID:** WSB-6 70'  
**Collection Date:** 6/10/2010 08:25 AM

**Work Order:** 1006499  
**Lab ID:** 1006499-37  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 05:33 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 05:33 PM |
| Surr: 2-Fluorobiphenyl         | 102    |      | 70-130         | %REC  | 1                    | 6/17/2010 05:33 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/22/2010 11:13 PM |
| Surr: 4-Bromofluorobenzene     | 75.2   |      | 70-130         | %REC  | 1                    | 6/22/2010 11:13 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 04:43 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 04:43 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 04:43 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 04:43 PM |
| Surr: 4-Bromofluorobenzene     | 91.0   |      | 75-131         | %REC  | 1                    | 6/19/2010 04:43 PM |
| Surr: Trifluorotoluene         | 96.2   |      | 73-130         | %REC  | 1                    | 6/19/2010 04:43 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 50.7   |      | 5.00           | mg/Kg | 1                    | 6/30/2010 06:27 AM |
| Surr: Selenate (surr)          | 98.4   |      | 85-115         | %REC  | 1                    | 6/30/2010 06:27 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-6 80'

Lab ID: 1006499-38

Collection Date: 6/10/2010 08:35 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 05:14 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 05:14 PM |
| Surr: 2-Fluorobiphenyl         | 108    |      | 70-130         | %REC  | 1                    | 6/17/2010 05:14 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/22/2010 11:36 PM |
| Surr: 4-Bromofluorobenzene     | 82.3   |      | 70-130         | %REC  | 1                    | 6/22/2010 11:36 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 05:03 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 05:03 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 05:03 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 05:03 PM |
| Surr: 4-Bromofluorobenzene     | 95.9   |      | 75-131         | %REC  | 1                    | 6/19/2010 05:03 PM |
| Surr: Trifluorotoluene         | 98.8   |      | 73-130         | %REC  | 1                    | 6/19/2010 05:03 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 55.2   |      | 4.98           | mg/Kg | 1                    | 6/30/2010 06:41 AM |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                    | 6/30/2010 06:41 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-6 90'

Lab ID: 1006499-39

Collection Date: 6/10/2010 08:45 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 04:54 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 04:54 PM |
| Surr: 2-Fluorobiphenyl         | 102    |      | 70-130         | %REC  | 1                    | 6/17/2010 04:54 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010          |
| Surr: 4-Bromofluorobenzene     | 82.1   |      | 70-130         | %REC  | 1                    | 6/23/2010          |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 05:23 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 05:23 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 05:23 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 05:23 PM |
| Surr: 4-Bromofluorobenzene     | 92.8   |      | 75-131         | %REC  | 1                    | 6/19/2010 05:23 PM |
| Surr: Trifluorotoluene         | 97.7   |      | 73-130         | %REC  | 1                    | 6/19/2010 05:23 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/28/2010 | Analyst: DM        |
| Chloride                       | 39.2   |      | 4.97           | mg/Kg | 1                    | 6/30/2010 02:46 PM |
| Surr: Selenate (surr)          | 105    |      | 85-115         | %REC  | 1                    | 6/30/2010 02:46 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-6 100'

Lab ID: 1006499-40

Collection Date: 6/10/2010 08:55 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|--------------|--------------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                      |                    |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Motor Oil Range)          | ND     |      |              | 3.4 mg/Kg    | 1                    | 6/17/2010 04:35 PM |
| Surr: 2-Fluorobiphenyl         | 111    |      |              | 70-130 %REC  | 1                    | 6/17/2010 04:35 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                      |                    |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1                    | Analyst: KKP       |
| Surr: 4-Bromofluorobenzene     | 80.0   |      |              | 70-130 %REC  | 1                    | 6/23/2010 12:23 AM |
| <b>BTEX</b>                    |        |      |              |              |                      |                    |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1                    | Analyst: KKP       |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1                    | 6/19/2010 05:43 PM |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1                    | 6/19/2010 05:43 PM |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1                    | 6/19/2010 05:43 PM |
| Surr: 4-Bromofluorobenzene     | 93.7   |      |              | 75-131 %REC  | 1                    | 6/19/2010 05:43 PM |
| Surr: Trifluorotoluene         | 96.6   |      |              | 73-130 %REC  | 1                    | 6/19/2010 05:43 PM |
| <b>ANIONS</b>                  |        |      |              |              |                      |                    |
| Chloride                       | 35.7   |      | E300         | 4.96 mg/Kg   | Prep Date: 6/28/2010 | Analyst: DM        |
| Surr: Selenate (surr)          | 101    |      |              | 85-115 %REC  | 1                    | 6/30/2010 07:11 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-6 110'

Lab ID: 1006499-41

Collection Date: 6/10/2010 09:00 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/19/2010 01:51 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/19/2010 01:51 PM |
| Surr: 2-Fluorobiphenyl         | 110    |      | 70-130         | %REC  | 1                    | 6/19/2010 01:51 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 12:46 AM |
| Surr: 4-Bromofluorobenzene     | 81.8   |      | 70-130         | %REC  | 1                    | 6/23/2010 12:46 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 07:35 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 07:35 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 07:35 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 07:35 PM |
| Surr: 4-Bromofluorobenzene     | 91.5   |      | 75-131         | %REC  | 1                    | 6/19/2010 07:35 PM |
| Surr: Trifluorotoluene         | 98.2   |      | 73-130         | %REC  | 1                    | 6/19/2010 07:35 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 26.6   |      | 5.00           | mg/Kg | 1                    | 7/1/2010 08:39 PM  |
| Surr: Selenate (surr)          | 96.7   |      | 85-115         | %REC  | 1                    | 7/1/2010 08:39 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-4 30'

Lab ID: 1006499-42

Collection Date: 6/10/2010 11:15 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 1,000  |      | 42             | mg/Kg | 25                   | 6/29/2010 05:28 PM |
| TPH (Motor Oil Range)          | 400    |      | 85             | mg/Kg | 25                   | 6/29/2010 05:28 PM |
| Surr: 2-Fluorobiphenyl         | 611    | S    | 70-130         | %REC  | 25                   | 6/29/2010 05:28 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 300    |      | 62             | mg/Kg | 1250                 | 6/23/2010 04:15 PM |
| Surr: 4-Bromofluorobenzene     | 90.3   |      | 70-130         | %REC  | 1250                 | 6/23/2010 04:15 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.25           | mg/Kg | 250                  | 6/22/2010 03:35 AM |
| Toluene                        | 1.6    |      | 0.25           | mg/Kg | 250                  | 6/22/2010 03:35 AM |
| Ethylbenzene                   | 20     |      | 0.25           | mg/Kg | 250                  | 6/22/2010 03:35 AM |
| Xylenes, Total                 | 30     |      | 0.75           | mg/Kg | 250                  | 6/22/2010 03:35 AM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 75-131         | %REC  | 250                  | 6/22/2010 03:35 AM |
| Surr: Trifluorotoluene         | 88.1   |      | 73-130         | %REC  | 250                  | 6/22/2010 03:35 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 7.53   |      | 4.94           | mg/Kg | 1                    | 7/1/2010 09:23 PM  |
| Surr: Selenate (surr)          | 93.6   |      | 85-115         | %REC  | 1                    | 7/1/2010 09:23 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
Project: Lea Refinery Soil Borings  
Sample ID: WSB-4 40'  
Collection Date: 6/10/2010 11:25 AM

Work Order: 1006499  
Lab ID: 1006499-43  
Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 2,700  |      | 170            | mg/Kg | 100                  | 6/29/2010 05:48 PM |
| TPH (Motor Oil Range)          | 800    |      | 340            | mg/Kg | 100                  | 6/29/2010 05:48 PM |
| Surr: 2-Fluorobiphenyl         | 0      | S    | 70-130         | %REC  | 100                  | 6/29/2010 05:48 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 470    |      | 62             | mg/Kg | 1250                 | 6/23/2010 04:39 PM |
| Surr: 4-Bromofluorobenzene     | 93.2   |      | 70-130         | %REC  | 1250                 | 6/23/2010 04:39 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.25           | mg/Kg | 250                  | 6/23/2010 09:58 PM |
| Toluene                        | 0.40   |      | 0.25           | mg/Kg | 250                  | 6/23/2010 09:58 PM |
| Ethylbenzene                   | 13     |      | 1.2            | mg/Kg | 1250                 | 6/22/2010 04:51 AM |
| Xylenes, Total                 | 17     |      | 3.8            | mg/Kg | 1250                 | 6/22/2010 04:51 AM |
| Surr: 4-Bromofluorobenzene     | 88.8   |      | 75-131         | %REC  | 250                  | 6/23/2010 09:58 PM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 75-131         | %REC  | 1250                 | 6/22/2010 04:51 AM |
| Surr: Trifluorotoluene         | 90.1   |      | 73-130         | %REC  | 250                  | 6/23/2010 09:58 PM |
| Surr: Trifluorotoluene         | 82.0   |      | 73-130         | %REC  | 1250                 | 6/22/2010 04:51 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 14.0   |      | 5.00           | mg/Kg | 1                    | 7/1/2010 09:37 PM  |
| Surr: Selenate (surr)          | 92.4   |      | 85-115         | %REC  | 1                    | 7/1/2010 09:37 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
 Project: Lea Refinery Soil Borings  
 Sample ID: WSB-4 50'  
 Collection Date: 6/10/2010 11:35 AM

Work Order: 1006499  
 Lab ID: 1006499-44  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 2,600  |      | 170            | mg/Kg | 100                  | 6/29/2010 06:07 PM |
| TPH (Motor Oil Range)          | 810    |      | 340            | mg/Kg | 100                  | 6/29/2010 06:07 PM |
| Surr: 2-Fluorobiphenyl         | 0      | S    | 70-130         | %REC  | 100                  | 6/29/2010 06:07 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 340    |      | 62             | mg/Kg | 1250                 | 6/23/2010 05:02 PM |
| Surr: 4-Bromofluorobenzene     | 85.2   |      | 70-130         | %REC  | 1250                 | 6/23/2010 05:02 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.25           | mg/Kg | 250                  | 6/22/2010 03:54 AM |
| Toluene                        | 0.98   |      | 0.25           | mg/Kg | 250                  | 6/22/2010 03:54 AM |
| Ethylbenzene                   | 21     |      | 0.25           | mg/Kg | 250                  | 6/22/2010 03:54 AM |
| Xylenes, Total                 | 31     |      | 0.75           | mg/Kg | 250                  | 6/22/2010 03:54 AM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 75-131         | %REC  | 250                  | 6/22/2010 03:54 AM |
| Surr: Trifluorotoluene         | 87.6   |      | 73-130         | %REC  | 250                  | 6/22/2010 03:54 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 22.6   |      | 4.96           | mg/Kg | 1                    | 7/1/2010 09:52 PM  |
| Surr: Selenate (surr)          | 91.1   |      | 85-115         | %REC  | 1                    | 7/1/2010 09:52 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-4 60'

Lab ID: 1006499-45

Collection Date: 6/10/2010 12:40 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 3,300  |      | 170            | mg/Kg | 100                  | 6/29/2010 07:48 PM |
| TPH (Motor Oil Range)          | 1,200  |      | 340            | mg/Kg | 100                  | 6/29/2010 07:48 PM |
| Surr: 2-Fluorobiphenyl         | 0      | S    | 70-130         | %REC  | 100                  | 6/29/2010 07:48 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 250    |      | 62             | mg/Kg | 1250                 | 6/23/2010 06:01 PM |
| Surr: 4-Bromofluorobenzene     | 84.9   |      | 70-130         | %REC  | 1250                 | 6/23/2010 06:01 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.25           | mg/Kg | 250                  | 6/22/2010 04:13 AM |
| Toluene                        | 0.29   |      | 0.25           | mg/Kg | 250                  | 6/22/2010 04:13 AM |
| Ethylbenzene                   | 8.9    |      | 0.25           | mg/Kg | 250                  | 6/22/2010 04:13 AM |
| Xylenes, Total                 | 7.1    |      | 0.75           | mg/Kg | 250                  | 6/22/2010 04:13 AM |
| Surr: 4-Bromofluorobenzene     | 92.8   |      | 75-131         | %REC  | 250                  | 6/22/2010 04:13 AM |
| Surr: Trifluorotoluene         | 82.7   |      | 73-130         | %REC  | 250                  | 6/22/2010 04:13 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 23.2   |      | 5.00           | mg/Kg | 1                    | 7/1/2010 10:06 PM  |
| Surr: Selenate (surr)          | 88.5   |      | 85-115         | %REC  | 1                    | 7/1/2010 10:06 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-4 70'

Collection Date: 6/10/2010 12:50 PM

Work Order: 1006499

Lab ID: 1006499-46

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 2,800  |      | 170            | mg/Kg | 100                  | 6/29/2010 08:26 PM |
| TPH (Motor Oil Range)          | 1,200  |      | 340            | mg/Kg | 100                  | 6/29/2010 08:26 PM |
| Surr: 2-Fluorobiphenyl         | 0      | S    | 70-130         | %REC  | 100                  | 6/29/2010 08:26 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 67     |      | 62             | mg/Kg | 1250                 | 6/23/2010 06:25 PM |
| Surr: 4-Bromofluorobenzene     | 95.6   |      | 70-130         | %REC  | 1250                 | 6/23/2010 06:25 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.25           | mg/Kg | 250                  | 6/22/2010 01:50 PM |
| Toluene                        | ND     |      | 0.25           | mg/Kg | 250                  | 6/22/2010 01:50 PM |
| Ethylbenzene                   | 1.7    |      | 0.25           | mg/Kg | 250                  | 6/22/2010 01:50 PM |
| Xylenes, Total                 | 1.5    |      | 0.75           | mg/Kg | 250                  | 6/22/2010 01:50 PM |
| Surr: 4-Bromofluorobenzene     | 87.5   |      | 75-131         | %REC  | 250                  | 6/22/2010 01:50 PM |
| Surr: Trifluorotoluene         | 84.2   |      | 73-130         | %REC  | 250                  | 6/22/2010 01:50 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 16.5   |      | 5.00           | mg/Kg | 1                    | 7/1/2010 10:50 PM  |
| Surr: Selenate (surr)          | 87.7   |      | 85-115         | %REC  | 1                    | 7/1/2010 10:50 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-4 80'

Collection Date: 6/10/2010 01:00 PM

Work Order: 1006499

Lab ID: 1006499-47

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 3,500  |      | 170            | mg/Kg | 100                  | 6/29/2010 04:11 PM |
| TPH (Motor Oil Range)          | 1,100  |      | 340            | mg/Kg | 100                  | 6/29/2010 04:11 PM |
| Surr: 2-Fluorobiphenyl         | 0      | S    | 70-130         | %REC  | 100                  | 6/29/2010 04:11 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 150    |      | 62             | mg/Kg | 1250                 | 6/23/2010 06:48 PM |
| Surr: 4-Bromofluorobenzene     | 83.6   |      | 70-130         | %REC  | 1250                 | 6/23/2010 06:48 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.25           | mg/Kg | 250                  | 6/23/2010 10:15 PM |
| Toluene                        | 0.25   |      | 0.25           | mg/Kg | 250                  | 6/23/2010 10:15 PM |
| Ethylbenzene                   | 4.4    |      | 0.25           | mg/Kg | 250                  | 6/23/2010 10:15 PM |
| Xylenes, Total                 | 4.2    |      | 0.75           | mg/Kg | 250                  | 6/23/2010 10:15 PM |
| Surr: 4-Bromofluorobenzene     | 106    |      | 75-131         | %REC  | 250                  | 6/23/2010 10:15 PM |
| Surr: Trifluorotoluene         | 90.1   |      | 73-130         | %REC  | 250                  | 6/23/2010 10:15 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 27.2   |      | 4.96           | mg/Kg | 1                    | 7/1/2010 11:04 PM  |
| Surr: Selenate (surr)          | 95.3   |      | 85-115         | %REC  | 1                    | 7/1/2010 11:04 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-4 90'

Collection Date: 6/10/2010 01:10 PM

Work Order: 1006499

Lab ID: 1006499-48

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 380    |      | 17             | mg/Kg | 10                   | 6/29/2010 04:30 PM |
| TPH (Motor Oil Range)          | 210    |      | 34             | mg/Kg | 10                   | 6/29/2010 04:30 PM |
| Surr: 2-Fluorobiphenyl         | 110    |      | 70-130         | %REC  | 10                   | 6/29/2010 04:30 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 5.1    |      | 0.25           | mg/Kg | 5                    | 6/22/2010 07:04 PM |
| Surr: 4-Bromofluorobenzene     | 89.0   |      | 70-130         | %REC  | 5                    | 6/22/2010 07:04 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: WLR       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/24/2010 02:17 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/24/2010 02:17 PM |
| Ethylbenzene                   | 0.0060 |      | 0.0010         | mg/Kg | 1                    | 6/24/2010 02:17 PM |
| Xylenes, Total                 | 0.011  |      | 0.0030         | mg/Kg | 1                    | 6/24/2010 02:17 PM |
| Surr: 4-Bromofluorobenzene     | 108    |      | 75-131         | %REC  | 1                    | 6/24/2010 02:17 PM |
| Surr: Trifluorotoluene         | 91.0   |      | 73-130         | %REC  | 1                    | 6/24/2010 02:17 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 11.6   |      | 4.95           | mg/Kg | 1                    | 7/1/2010 11:19 PM  |
| Surr: Selenate (surr)          | 91.4   |      | 85-115         | %REC  | 1                    | 7/1/2010 11:19 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-4 100'

Lab ID: 1006499-49

Collection Date: 6/10/2010 01:20 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 24     |      | 1.7            | mg/Kg | 1                    | 6/29/2010 04:11 PM |
| TPH (Motor Oil Range)          | 23     |      | 3.4            | mg/Kg | 1                    | 6/29/2010 04:11 PM |
| Surr: 2-Fluorobiphenyl         | 109    |      | 70-130         | %REC  | 1                    | 6/29/2010 04:11 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 03:29 AM |
| Surr: 4-Bromofluorobenzene     | 76.7   |      | 70-130         | %REC  | 1                    | 6/23/2010 03:29 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 08:52 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 08:52 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 08:52 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 08:52 PM |
| Surr: 4-Bromofluorobenzene     | 95.0   |      | 75-131         | %REC  | 1                    | 6/19/2010 08:52 PM |
| Surr: Trifluorotoluene         | 105    |      | 73-130         | %REC  | 1                    | 6/19/2010 08:52 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 5.71   |      | 5.00           | mg/Kg | 1                    | 7/1/2010 11:34 PM  |
| Surr: Selenate (surr)          | 92.4   |      | 85-115         | %REC  | 1                    | 7/1/2010 11:34 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
Project: Lea Refinery Soil Borings  
Sample ID: WSB-4 110'  
Collection Date: 6/10/2010 01:30 PM

Work Order: 1006499  
Lab ID: 1006499-50  
Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 2.3    |      | 1.7            | mg/Kg | 1                    | 6/29/2010 04:30 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/29/2010 04:30 PM |
| Surr: 2-Fluorobiphenyl         | 73.7   |      | 70-130         | %REC  | 1                    | 6/29/2010 04:30 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 04:39 AM |
| Surr: 4-Bromofluorobenzene     | 77.7   |      | 70-130         | %REC  | 1                    | 6/23/2010 04:39 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:12 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:12 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:12 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 09:12 PM |
| Surr: 4-Bromofluorobenzene     | 93.1   |      | 75-131         | %REC  | 1                    | 6/19/2010 09:12 PM |
| Surr: Trifluorotoluene         | 99.9   |      | 73-130         | %REC  | 1                    | 6/19/2010 09:12 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 9.61   |      | 4.98           | mg/Kg | 1                    | 7/1/2010 11:48 PM  |
| Surr: Selenate (surr)          | 84.3   | S    | 85-115         | %REC  | 1                    | 7/1/2010 11:48 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
 Project: Lea Refinery Soil Borings  
 Sample ID: WSB-5 30'  
 Collection Date: 6/11/2010 06:55 AM

Work Order: 1006499  
 Lab ID: 1006499-51  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 2,100  |      | 85             | mg/Kg | 50                   | 6/29/2010 04:50 PM |
| TPH (Motor Oil Range)          | 810    |      | 170            | mg/Kg | 50                   | 6/29/2010 04:50 PM |
| Surr: 2-Fluorobiphenyl         | 0      | S    | 70-130         | %REC  | 50                   | 6/29/2010 04:50 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 110    |      | 62             | mg/Kg | 1250                 | 6/23/2010 07:35 PM |
| Surr: 4-Bromofluorobenzene     | 88.3   |      | 70-130         | %REC  | 1250                 | 6/23/2010 07:35 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.25           | mg/Kg | 250                  | 6/22/2010 02:27 PM |
| Toluene                        | 0.25   |      | 0.25           | mg/Kg | 250                  | 6/22/2010 02:27 PM |
| Ethylbenzene                   | 4.4    |      | 0.25           | mg/Kg | 250                  | 6/22/2010 02:27 PM |
| Xylenes, Total                 | 7.3    |      | 0.75           | mg/Kg | 250                  | 6/22/2010 02:27 PM |
| Surr: 4-Bromofluorobenzene     | 114    |      | 75-131         | %REC  | 250                  | 6/22/2010 02:27 PM |
| Surr: Trifluorotoluene         | 88.8   |      | 73-130         | %REC  | 250                  | 6/22/2010 02:27 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 7.73   |      | 5.00           | mg/Kg | 1                    | 7/2/2010 12:03 AM  |
| Surr: Selenate (surr)          | 96.7   |      | 85-115         | %REC  | 1                    | 7/2/2010 12:03 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-5 40'

Lab ID: 1006499-52

Collection Date: 6/11/2010 07:05 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 5,100  |      | 170            | mg/Kg | 100                  | 6/29/2010 05:09 PM |
| TPH (Motor Oil Range)          | 1,800  |      | 340            | mg/Kg | 100                  | 6/29/2010 05:09 PM |
| Surr: 2-Fluorobiphenyl         | 0      | S    | 70-130         | %REC  | 100                  | 6/29/2010 05:09 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 400    |      | 62             | mg/Kg | 1250                 | 6/23/2010 07:59 PM |
| Surr: 4-Bromofluorobenzene     | 86.1   |      | 70-130         | %REC  | 1250                 | 6/23/2010 07:59 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.25           | mg/Kg | 250                  | 6/22/2010 02:46 PM |
| Toluene                        | 3.3    |      | 0.25           | mg/Kg | 250                  | 6/22/2010 02:46 PM |
| Ethylbenzene                   | 38     |      | 1.2            | mg/Kg | 1250                 | 6/23/2010 09:42 PM |
| Xylenes, Total                 | 59     |      | 0.75           | mg/Kg | 250                  | 6/22/2010 02:46 PM |
| Surr: 4-Bromofluorobenzene     | 108    |      | 75-131         | %REC  | 1250                 | 6/23/2010 09:42 PM |
| Surr: 4-Bromofluorobenzene     | 106    |      | 75-131         | %REC  | 250                  | 6/22/2010 02:46 PM |
| Surr: Trifluorotoluene         | 92.9   |      | 73-130         | %REC  | 1250                 | 6/23/2010 09:42 PM |
| Surr: Trifluorotoluene         | 106    |      | 73-130         | %REC  | 250                  | 6/22/2010 02:46 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 17.2   |      | 4.95           | mg/Kg | 1                    | 7/2/2010 12:17 AM  |
| Surr: Selenate (surr)          | 99.5   |      | 85-115         | %REC  | 1                    | 7/2/2010 12:17 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
Project: Lea Refinery Soil Borings  
Sample ID: WSB-5 50'  
Collection Date: 6/11/2010 07:20 AM

Work Order: 1006499  
Lab ID: 1006499-53  
Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 4,800  |      | 170            | mg/Kg | 100                  | 6/29/2010 07:25 PM |
| TPH (Motor Oil Range)          | 2,000  |      | 340            | mg/Kg | 100                  | 6/29/2010 07:25 PM |
| Surr: 2-Fluorobiphenyl         | 0      | S    | 70-130         | %REC  | 100                  | 6/29/2010 07:25 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 610    |      | 62             | mg/Kg | 1250                 | 6/23/2010 08:22 PM |
| Surr: 4-Bromofluorobenzene     | 93.0   |      | 70-130         | %REC  | 1250                 | 6/23/2010 08:22 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.25           | mg/Kg | 250                  | 6/23/2010 10:32 PM |
| Toluene                        | 1.4    |      | 0.25           | mg/Kg | 250                  | 6/23/2010 10:32 PM |
| Ethylbenzene                   | 12     |      | 1.2            | mg/Kg | 1250                 | 6/22/2010 04:01 PM |
| Xylenes, Total                 | 24     |      | 3.8            | mg/Kg | 1250                 | 6/22/2010 04:01 PM |
| Surr: 4-Bromofluorobenzene     | 94.7   |      | 75-131         | %REC  | 250                  | 6/23/2010 10:32 PM |
| Surr: 4-Bromofluorobenzene     | 95.1   |      | 75-131         | %REC  | 1250                 | 6/22/2010 04:01 PM |
| Surr: Trifluorotoluene         | 97.3   |      | 73-130         | %REC  | 250                  | 6/23/2010 10:32 PM |
| Surr: Trifluorotoluene         | 81.1   |      | 73-130         | %REC  | 1250                 | 6/22/2010 04:01 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 23.7   |      | 4.98           | mg/Kg | 1                    | 7/2/2010 12:32 AM  |
| Surr: Selenate (surr)          | 87.1   |      | 85-115         | %REC  | 1                    | 7/2/2010 12:32 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-5 60'

Lab ID: 1006499-54

Collection Date: 6/11/2010 07:30 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 430    |      | 17             | mg/Kg | 10                   | 6/29/2010 06:27 PM |
| TPH (Motor Oil Range)          | 200    |      | 34             | mg/Kg | 10                   | 6/29/2010 06:27 PM |
| Surr: 2-Fluorobiphenyl         | 143    | S    | 70-130         | %REC  | 10                   | 6/29/2010 06:27 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 0.62   |      | 0.050          | mg/Kg | 1                    | 6/23/2010 05:02 AM |
| Surr: 4-Bromofluorobenzene     | 87.9   |      | 70-130         | %REC  | 1                    | 6/23/2010 05:02 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:32 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:32 PM |
| Ethylbenzene                   | 0.0025 |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:32 PM |
| Xylenes, Total                 | 0.0062 |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 09:32 PM |
| Surr: 4-Bromofluorobenzene     | 116    |      | 75-131         | %REC  | 1                    | 6/19/2010 09:32 PM |
| Surr: Trifluorotoluene         | 98.2   |      | 73-130         | %REC  | 1                    | 6/19/2010 09:32 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 15.2   |      | 4.99           | mg/Kg | 1                    | 7/2/2010 12:46 AM  |
| Surr: Selenate (surr)          | 92.7   |      | 85-115         | %REC  | 1                    | 7/2/2010 12:46 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-5 70'

Collection Date: 6/11/2010 07:40 AM

Work Order: 1006499

Lab ID: 1006499-55

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 5.0    |      | 1.7            | mg/Kg | 1                    | 6/29/2010 06:27 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/29/2010 06:27 PM |
| Surr: 2-Fluorobiphenyl         | 82.3   |      | 70-130         | %REC  | 1                    | 6/29/2010 06:27 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 05:25 AM |
| Surr: 4-Bromofluorobenzene     | 84.4   |      | 70-130         | %REC  | 1                    | 6/23/2010 05:25 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:52 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:52 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 09:52 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 09:52 PM |
| Surr: 4-Bromofluorobenzene     | 98.0   |      | 75-131         | %REC  | 1                    | 6/19/2010 09:52 PM |
| Surr: Trifluorotoluene         | 105    |      | 73-130         | %REC  | 1                    | 6/19/2010 09:52 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 17.2   |      | 5.00           | mg/Kg | 1                    | 7/2/2010 01:01 AM  |
| Surr: Selenate (surr)          | 97.6   |      | 85-115         | %REC  | 1                    | 7/2/2010 01:01 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-5 80'

Collection Date: 6/11/2010 07:50 AM

Work Order: 1006499

Lab ID: 1006499-56

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 69     |      | 3.4            | mg/Kg | 2                    | 6/29/2010 07:25 PM |
| TPH (Motor Oil Range)          | 35     |      | 6.8            | mg/Kg | 2                    | 6/29/2010 07:25 PM |
| Surr: 2-Fluorobiphenyl         | 76.4   |      | 70-130         | %REC  | 2                    | 6/29/2010 07:25 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 01:09 AM |
| Surr: 4-Bromofluorobenzene     | 78.5   |      | 70-130         | %REC  | 1                    | 6/23/2010 01:09 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 05:39 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 05:39 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 05:39 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/20/2010 05:39 PM |
| Surr: 4-Bromofluorobenzene     | 100    |      | 75-131         | %REC  | 1                    | 6/20/2010 05:39 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/20/2010 05:39 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 17.5   |      | 4.96           | mg/Kg | 1                    | 7/2/2010 01:44 AM  |
| Surr: Selenate (surr)          | 92.7   |      | 85-115         | %REC  | 1                    | 7/2/2010 01:44 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
Project: Lea Refinery Soil Borings  
Sample ID: WSB-5 90'  
Collection Date: 6/11/2010 08:00 AM

Work Order: 1006499  
Lab ID: 1006499-57  
Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 210    |      | 8.5            | mg/Kg | 5                    | 6/29/2010 07:48 PM |
| TPH (Motor Oil Range)          | 110    |      | 17             | mg/Kg | 5                    | 6/29/2010 07:48 PM |
| Surr: 2-Fluorobiphenyl         | 102    |      | 70-130         | %REC  | 5                    | 6/29/2010 07:48 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | 20     |      | 0.25           | mg/Kg | 5                    | 6/22/2010 08:40 PM |
| Surr: 4-Bromofluorobenzene     | 222    | S    | 70-130         | %REC  | 5                    | 6/22/2010 08:40 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0050         | mg/Kg | 5                    | 6/20/2010 07:19 PM |
| Toluene                        | ND     |      | 0.0050         | mg/Kg | 5                    | 6/20/2010 07:19 PM |
| Ethylbenzene                   | 0.10   |      | 0.0050         | mg/Kg | 5                    | 6/20/2010 07:19 PM |
| Xylenes, Total                 | 0.22   |      | 0.015          | mg/Kg | 5                    | 6/20/2010 07:19 PM |
| Surr: 4-Bromofluorobenzene     | 112    |      | 75-131         | %REC  | 5                    | 6/20/2010 07:19 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 5                    | 6/20/2010 07:19 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 26.4   |      | 4.96           | mg/Kg | 1                    | 7/2/2010 01:59 AM  |
| Surr: Selenate (surr)          | 95.9   |      | 85-115         | %REC  | 1                    | 7/2/2010 01:59 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-5 100'

Lab ID: 1006499-58

Collection Date: 6/11/2010 08:10 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 93     |      | 3.4            | mg/Kg | 2                    | 6/29/2010 10:42 PM |
| TPH (Motor Oil Range)          | 52     |      | 6.8            | mg/Kg | 2                    | 6/29/2010 10:42 PM |
| Surr: 2-Fluorobiphenyl         | 126    |      | 70-130         | %REC  | 2                    | 6/29/2010 10:42 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 05:49 AM |
| Surr: 4-Bromofluorobenzene     | 84.2   |      | 70-130         | %REC  | 1                    | 6/23/2010 05:49 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 10:12 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 10:12 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/19/2010 10:12 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/19/2010 10:12 PM |
| Surr: 4-Bromofluorobenzene     | 96.4   |      | 75-131         | %REC  | 1                    | 6/19/2010 10:12 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/19/2010 10:12 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 14.1   |      | 5.00           | mg/Kg | 1                    | 7/2/2010 02:14 AM  |
| Surr: Selenate (surr)          | 93.6   |      | 85-115         | %REC  | 1                    | 7/2/2010 02:14 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company  
 Project: Lea Refinery Soil Borings  
 Sample ID: WSB-5 110'  
 Collection Date: 6/11/2010 08:20 AM

Work Order: 1006499  
 Lab ID: 1006499-59  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/29/2010 05:09 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/29/2010 05:09 PM |
| Surr: 2-Fluorobiphenyl         | 88.3   |      | 70-130         | %REC  | 1                    | 6/29/2010 05:09 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 06:35 AM |
| Surr: 4-Bromofluorobenzene     | 80.0   |      | 70-130         | %REC  | 1                    | 6/23/2010 06:35 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 01:00 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 01:00 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 01:00 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/20/2010 01:00 PM |
| Surr: 4-Bromofluorobenzene     | 91.9   |      | 75-131         | %REC  | 1                    | 6/20/2010 01:00 PM |
| Surr: Trifluorotoluene         | 98.3   |      | 73-130         | %REC  | 1                    | 6/20/2010 01:00 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | ND     |      | 4.96           | mg/Kg | 1                    | 7/2/2010 02:28 AM  |
| Surr: Selenate (surr)          | 94.4   |      | 85-115         | %REC  | 1                    | 7/2/2010 02:28 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-7 10'

Collection Date: 6/11/2010 12:00 PM

Work Order: 1006499

Lab ID: 1006499-60

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/29/2010 05:28 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/29/2010 05:28 PM |
| Surr: 2-Fluorobiphenyl         | 82.3   |      | 70-130         | %REC  | 1                    | 6/29/2010 05:28 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 06:58 AM |
| Surr: 4-Bromofluorobenzene     | 84.9   |      | 70-130         | %REC  | 1                    | 6/23/2010 06:58 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 01:20 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 01:20 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 01:20 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/20/2010 01:20 PM |
| Surr: 4-Bromofluorobenzene     | 90.1   |      | 75-131         | %REC  | 1                    | 6/20/2010 01:20 PM |
| Surr: Trifluorotoluene         | 97.8   |      | 73-130         | %REC  | 1                    | 6/20/2010 01:20 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/30/2010 | Analyst: JBA       |
| Chloride                       | 12.5   |      | 4.98           | mg/Kg | 1                    | 7/2/2010 02:43 AM  |
| Surr: Selenate (surr)          | 97.0   |      | 85-115         | %REC  | 1                    | 7/2/2010 02:43 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-7 20'

Lab ID: 1006499-61

Collection Date: 6/11/2010 12:10 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 06:31 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 06:31 PM |
| Surr: 2-Fluorobiphenyl         | 89.3   |      | 70-130         | %REC  | 1                    | 6/17/2010 06:31 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 07:21 AM |
| Surr: 4-Bromofluorobenzene     | 84.3   |      | 70-130         | %REC  | 1                    | 6/23/2010 07:21 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 01:40 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 01:40 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 01:40 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/20/2010 01:40 PM |
| Surr: 4-Bromofluorobenzene     | 94.1   |      | 75-131         | %REC  | 1                    | 6/20/2010 01:40 PM |
| Surr: Trifluorotoluene         | 98.4   |      | 73-130         | %REC  | 1                    | 6/20/2010 01:40 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/1/2010  | Analyst: JBA       |
| Chloride                       | 20.3   |      | 4.96           | mg/Kg | 1                    | 7/2/2010 07:27 AM  |
| Surr: Selenate (surr)          | 84.8   | S    | 85-115         | %REC  | 1                    | 7/2/2010 07:27 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-7 30'

Collection Date: 6/11/2010 01:25 PM

Work Order: 1006499

Lab ID: 1006499-62

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/17/2010 07:30 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 07:30 PM |
| Surr: 2-Fluorobiphenyl         | 104    |      | 70-130         | %REC  | 1                    | 6/17/2010 07:30 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 11:24 AM |
| Surr: 4-Bromofluorobenzene     | 84.6   |      | 70-130         | %REC  | 1                    | 6/23/2010 11:24 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0050         | mg/Kg | 5                    | 6/20/2010 06:39 PM |
| Toluene                        | ND     |      | 0.0050         | mg/Kg | 5                    | 6/20/2010 06:39 PM |
| Ethylbenzene                   | ND     |      | 0.0050         | mg/Kg | 5                    | 6/20/2010 06:39 PM |
| Xylenes, Total                 | ND     |      | 0.015          | mg/Kg | 5                    | 6/20/2010 06:39 PM |
| Surr: 4-Bromofluorobenzene     | 94.3   |      | 75-131         | %REC  | 5                    | 6/20/2010 06:39 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 5                    | 6/20/2010 06:39 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/1/2010  | Analyst: JBA       |
| Chloride                       | 14.0   |      | 4.95           | mg/Kg | 1                    | 7/2/2010 08:25 AM  |
| Surr: Selenate (surr)          | 93.4   |      | 85-115         | %REC  | 1                    | 7/2/2010 08:25 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-7 40'

Collection Date: 6/11/2010 01:35 PM

Work Order: 1006499

Lab ID: 1006499-63

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 5.6    |      | 1.7            | mg/Kg | 1                    | 6/17/2010 08:28 PM |
| TPH (Motor Oil Range)          | 15     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 08:28 PM |
| Surr: 2-Fluorobiphenyl         | 81.6   |      | 70-130         | %REC  | 1                    | 6/17/2010 08:28 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 07:44 AM |
| Surr: 4-Bromofluorobenzene     | 83.6   |      | 70-130         | %REC  | 1                    | 6/23/2010 07:44 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 02:00 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 02:00 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 02:00 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/20/2010 02:00 PM |
| Surr: 4-Bromofluorobenzene     | 93.5   |      | 75-131         | %REC  | 1                    | 6/20/2010 02:00 PM |
| Surr: Trifluorotoluene         | 97.6   |      | 73-130         | %REC  | 1                    | 6/20/2010 02:00 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/1/2010  | Analyst: JBA       |
| Chloride                       | 21.8   |      | 5.00           | mg/Kg | 1                    | 7/2/2010 08:40 AM  |
| Surr: Selenate (surr)          | 98.2   |      | 85-115         | %REC  | 1                    | 7/2/2010 08:40 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: WSB-7 50'

Collection Date: 6/11/2010 01:40 PM

Work Order: 1006499

Lab ID: 1006499-64

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 3.3    |      | 1.7            | mg/Kg | 1                    | 6/17/2010 08:47 PM |
| TPH (Motor Oil Range)          | 10     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 08:47 PM |
| Surr: 2-Fluorobiphenyl         | 98.7   |      | 70-130         | %REC  | 1                    | 6/17/2010 08:47 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 08:08 AM |
| Surr: 4-Bromofluorobenzene     | 87.0   |      | 70-130         | %REC  | 1                    | 6/23/2010 08:08 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 02:20 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 02:20 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 02:20 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/20/2010 02:20 PM |
| Surr: 4-Bromofluorobenzene     | 93.4   |      | 75-131         | %REC  | 1                    | 6/20/2010 02:20 PM |
| Surr: Trifluorotoluene         | 97.9   |      | 73-130         | %REC  | 1                    | 6/20/2010 02:20 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/1/2010  | Analyst: JBA       |
| Chloride                       | 21.1   |      | 4.95           | mg/Kg | 1                    | 7/2/2010 08:54 AM  |
| Surr: Selenate (surr)          | 89.1   |      | 85-115         | %REC  | 1                    | 7/2/2010 08:54 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-7 60'

Lab ID: 1006499-65

Collection Date: 6/11/2010 01:50 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 4.2    |      | 1.7            | mg/Kg | 1                    | 6/17/2010 09:07 PM |
| TPH (Motor Oil Range)          | 11     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 09:07 PM |
| Surr: 2-Fluorobiphenyl         | 86.1   |      | 70-130         | %REC  | 1                    | 6/17/2010 09:07 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 08:31 AM |
| Surr: 4-Bromofluorobenzene     | 79.6   |      | 70-130         | %REC  | 1                    | 6/23/2010 08:31 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 02:40 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 02:40 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 02:40 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/20/2010 02:40 PM |
| Surr: 4-Bromofluorobenzene     | 93.3   |      | 75-131         | %REC  | 1                    | 6/20/2010 02:40 PM |
| Surr: Trifluorotoluene         | 98.9   |      | 73-130         | %REC  | 1                    | 6/20/2010 02:40 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/1/2010  | Analyst: JBA       |
| Chloride                       | 22.2   |      | 4.98           | mg/Kg | 1                    | 7/2/2010 09:38 AM  |
| Surr: Selenate (surr)          | 90.6   |      | 85-115         | %REC  | 1                    | 7/2/2010 09:38 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-7 70'

Lab ID: 1006499-66

Collection Date: 6/11/2010 02:00 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor | Date Analyzed                      |
|--------------------------------|--------|------|--------------|--------------|-----------------|------------------------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                 |                                    |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | 1               | Analyst: KMB<br>6/17/2010 09:26 PM |
| TPH (Motor Oil Range)          | 3.8    |      |              | 3.4 mg/Kg    | 1               | 6/17/2010 09:26 PM                 |
| Surr: 2-Fluorobiphenyl         | 91.1   |      |              | 70-130 %REC  | 1               | 6/17/2010 09:26 PM                 |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                 |                                    |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1               | Analyst: KKP<br>6/23/2010 08:54 AM |
| Surr: 4-Bromofluorobenzene     | 84.6   |      |              | 70-130 %REC  | 1               | 6/23/2010 08:54 AM                 |
| <b>BTEX</b>                    |        |      |              |              |                 |                                    |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1               | Analyst: KKP<br>6/20/2010 04:19 PM |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1               | 6/20/2010 04:19 PM                 |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1               | 6/20/2010 04:19 PM                 |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1               | 6/20/2010 04:19 PM                 |
| Surr: 4-Bromofluorobenzene     | 94.8   |      |              | 75-131 %REC  | 1               | 6/20/2010 04:19 PM                 |
| Surr: Trifluorotoluene         | 101    |      |              | 73-130 %REC  | 1               | 6/20/2010 04:19 PM                 |
| <b>ANIONS</b>                  |        |      |              |              |                 |                                    |
| Chloride                       | 25.2   |      | E300         | 4.96 mg/Kg   | 1               | Analyst: JBA<br>7/2/2010 09:53 AM  |
| Surr: Selenate (surr)          | 89.5   |      |              | 85-115 %REC  | 1               | 7/2/2010 09:53 AM                  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-7 80'

Lab ID: 1006499-67

Collection Date: 6/11/2010 02:10 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 7.3    |      | 1.7            | mg/Kg | 1                    | 6/17/2010 09:45 PM |
| TPH (Motor Oil Range)          | 12     |      | 3.4            | mg/Kg | 1                    | 6/17/2010 09:45 PM |
| Surr: 2-Fluorobiphenyl         | 85.9   |      | 70-130         | %REC  | 1                    | 6/17/2010 09:45 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 09:18 AM |
| Surr: 4-Bromofluorobenzene     | 77.3   |      | 70-130         | %REC  | 1                    | 6/23/2010 09:18 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 04:39 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 04:39 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 04:39 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/20/2010 04:39 PM |
| Surr: 4-Bromofluorobenzene     | 94.8   |      | 75-131         | %REC  | 1                    | 6/20/2010 04:39 PM |
| Surr: Trifluorotoluene         | 99.5   |      | 73-130         | %REC  | 1                    | 6/20/2010 04:39 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/1/2010  | Analyst: JBA       |
| Chloride                       | 27.3   |      | 4.99           | mg/Kg | 1                    | 7/2/2010 10:07 AM  |
| Surr: Selenate (surr)          | 96.4   |      | 85-115         | %REC  | 1                    | 7/2/2010 10:07 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery Soil Borings  
**Sample ID:** WSB-7 90'  
**Collection Date:** 6/11/2010 02:30 PM

**Work Order:** 1006499  
**Lab ID:** 1006499-68  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|----------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                     |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: <b>KMB</b> |
| TPH (Diesel Range)             | 64     |      | 3.4            | mg/Kg | 2                    | 6/29/2010 11:32 AM  |
| TPH (Motor Oil Range)          | 76     |      | 6.8            | mg/Kg | 2                    | 6/29/2010 11:32 AM  |
| Surr: 2-Fluorobiphenyl         | 83.7   |      | 70-130         | %REC  | 2                    | 6/29/2010 11:32 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                     |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 09:41 AM  |
| Surr: 4-Bromofluorobenzene     | 79.8   |      | 70-130         | %REC  | 1                    | 6/23/2010 09:41 AM  |
| <b>BTEX</b>                    |        |      |                |       |                      |                     |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 05:59 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 05:59 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 05:59 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/20/2010 05:59 PM  |
| Surr: 4-Bromofluorobenzene     | 95.5   |      | 75-131         | %REC  | 1                    | 6/20/2010 05:59 PM  |
| Surr: Trifluorotoluene         | 99.6   |      | 73-130         | %REC  | 1                    | 6/20/2010 05:59 PM  |
| <b>ANIONS</b>                  |        |      |                |       |                      |                     |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/1/2010  | Analyst: <b>JBA</b> |
| Chloride                       | 30.9   |      | 5.00           | mg/Kg | 1                    | 7/2/2010 10:22 AM   |
| Surr: Selenate (surr)          | 88.4   |      | 85-115         | %REC  | 1                    | 7/2/2010 10:22 AM   |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-7 100'

Lab ID: 1006499-69

Collection Date: 6/11/2010 02:40 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 3.8    |      | 1.7            | mg/Kg | 1                    | 6/17/2010 10:24 PM |
| TPH (Motor Oil Range)          | 7.3    |      | 3.4            | mg/Kg | 1                    | 6/17/2010 10:24 PM |
| Surr: 2-Fluorobiphenyl         | 105    |      | 70-130         | %REC  | 1                    | 6/17/2010 10:24 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/23/2010 10:05 AM |
| Surr: 4-Bromofluorobenzene     | 86.7   |      | 70-130         | %REC  | 1                    | 6/23/2010 10:05 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 04:59 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 04:59 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 04:59 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/20/2010 04:59 PM |
| Surr: 4-Bromofluorobenzene     | 99.7   |      | 75-131         | %REC  | 1                    | 6/20/2010 04:59 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/20/2010 04:59 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/1/2010  | Analyst: JBA       |
| Chloride                       | 28.1   |      | 4.96           | mg/Kg | 1                    | 7/2/2010 10:36 AM  |
| Surr: Selenate (surr)          | 89.2   |      | 85-115         | %REC  | 1                    | 7/2/2010 10:36 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: WSB-7 110'

Lab ID: 1006499-70

Collection Date: 6/11/2010 02:50 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/16/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 6.4    |      | 1.7            | mg/Kg | 1                    | 6/17/2010 10:44 PM |
| TPH (Motor Oil Range)          | 8.9    |      | 3.4            | mg/Kg | 1                    | 6/17/2010 10:44 PM |
| Surr: 2-Fluorobiphenyl         | 88.8   |      | 70-130         | %REC  | 1                    | 6/17/2010 10:44 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/22/2010 09:03 PM |
| Surr: 4-Bromofluorobenzene     | 73.3   |      | 70-130         | %REC  | 1                    | 6/22/2010 09:03 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 05:19 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 05:19 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/20/2010 05:19 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/20/2010 05:19 PM |
| Surr: 4-Bromofluorobenzene     | 94.6   |      | 75-131         | %REC  | 1                    | 6/20/2010 05:19 PM |
| Surr: Trifluorotoluene         | 99.8   |      | 73-130         | %REC  | 1                    | 6/20/2010 05:19 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/1/2010  | Analyst: JBA       |
| Chloride                       | 17.5   |      | 4.95           | mg/Kg | 1                    | 7/2/2010 10:51 AM  |
| Surr: Selenate (surr)          | 89.1   |      | 85-115         | %REC  | 1                    | 7/2/2010 10:51 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



**ALS Laboratory Group**

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: Trip Blank 052410-13

Lab ID: 1006499-71

Collection Date: 6/11/2010

Matrix: WATER

| Analyses                   | Result | Qual | Report<br>Limit | Units | Dilution<br>Factor | Date Analyzed       |
|----------------------------|--------|------|-----------------|-------|--------------------|---------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b>  |       |                    | Analyst: <b>KKP</b> |
| Benzene                    | ND     |      | 0.0010          | mg/L  | 1                  | 6/22/2010 05:12 AM  |
| Toluene                    | ND     |      | 0.0010          | mg/L  | 1                  | 6/22/2010 05:12 AM  |
| Ethylbenzene               | ND     |      | 0.0010          | mg/L  | 1                  | 6/22/2010 05:12 AM  |
| Methyl tert-butyl ether    | ND     |      | 0.0050          | mg/L  | 1                  | 6/22/2010 05:12 AM  |
| Xylenes, Total             | ND     |      | 0.0030          | mg/L  | 1                  | 6/22/2010 05:12 AM  |
| Surr: 4-Bromofluorobenzene | 84.4   |      | 77-129          | %REC  | 1                  | 6/22/2010 05:12 AM  |
| Surr: Trifluorotoluene     | 97.1   |      | 75-130          | %REC  | 1                  | 6/22/2010 05:12 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Sample ID: Trip Blank 052810-59

Collection Date: 6/11/2010

Work Order: 1006499

Lab ID: 1006499-72

Matrix: WATER

| Analyses                   | Result | Qual | Report Limit   | Units | Dilution Factor | Date Analyzed      |
|----------------------------|--------|------|----------------|-------|-----------------|--------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b> |       |                 | Analyst: KKP       |
| Benzene                    | ND     |      | 0.0010         | mg/L  | 1               | 6/22/2010 05:32 AM |
| Toluene                    | ND     |      | 0.0010         | mg/L  | 1               | 6/22/2010 05:32 AM |
| Ethylbenzene               | ND     |      | 0.0010         | mg/L  | 1               | 6/22/2010 05:32 AM |
| Methyl tert-butyl ether    | ND     |      | 0.0050         | mg/L  | 1               | 6/22/2010 05:32 AM |
| Xylenes, Total             | ND     |      | 0.0030         | mg/L  | 1               | 6/22/2010 05:32 AM |
| Surr: 4-Bromofluorobenzene | 84.0   |      | 77-129         | %REC  | 1               | 6/22/2010 05:32 AM |
| Surr: Trifluorotoluene     | 96.3   |      | 75-130         | %REC  | 1               | 6/22/2010 05:32 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 06-Jul-10

Client: Navajo Refining Company

Project: Lea Refinery Soil Borings

Work Order: 1006499

Sample ID: Trip Blank 040810-36

Lab ID: 1006499-73

Collection Date: 6/11/2010

Matrix: WATER

| Analyses                   | Result | Qual | Report<br>Limit | Units | Dilution<br>Factor | Date Analyzed      |
|----------------------------|--------|------|-----------------|-------|--------------------|--------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b>  |       |                    | Analyst: KKP       |
| Benzene                    | ND     |      | 0.0010          | mg/L  | 1                  | 6/22/2010 05:52 AM |
| Toluene                    | ND     |      | 0.0010          | mg/L  | 1                  | 6/22/2010 05:52 AM |
| Ethylbenzene               | ND     |      | 0.0010          | mg/L  | 1                  | 6/22/2010 05:52 AM |
| Methyl tert-butyl ether    | ND     |      | 0.0050          | mg/L  | 1                  | 6/22/2010 05:52 AM |
| Xylenes, Total             | ND     |      | 0.0030          | mg/L  | 1                  | 6/22/2010 05:52 AM |
| Surr: 4-Bromofluorobenzene | 84.1   |      | 77-129          | %REC  | 1                  | 6/22/2010 05:52 AM |
| Surr: Trifluorotoluene     | 95.8   |      | 75-130          | %REC  | 1                  | 6/22/2010 05:52 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 06-Jul-10

**Client:** Navajo Refining Company  
**Work Order:** 1006499  
**Project:** Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: 43776 Instrument ID FID-7 Method: SW8015M

|                        |                                |      |         |               |                |               |               |                                   |           |       |
|------------------------|--------------------------------|------|---------|---------------|----------------|---------------|---------------|-----------------------------------|-----------|-------|
| <b>MBLK</b>            | Sample ID: FBLKS1-100616-43776 |      |         |               | Units: mg/Kg   |               |               | Analysis Date: 6/17/2010 11:03 AM |           |       |
| Client ID:             | Run ID: FID-7_100616B          |      |         |               | SeqNo: 2011219 |               |               | Prep Date: 6/16/2010              |           | DF: 1 |
| Analyte                | Result                         | PQL  | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| TPH (Diesel Range)     | ND                             | 1.7  |         |               |                |               |               |                                   |           |       |
| TPH (Motor Oil Range)  | ND                             | 3.4  |         |               |                |               |               |                                   |           |       |
| Surr: 2-Fluorobiphenyl | 4.17                           | 0.10 | 3.33    |               | 0              | 125           | 70-130        | 0                                 |           |       |

|                        |                                |      |         |               |                |               |               |                                   |           |       |
|------------------------|--------------------------------|------|---------|---------------|----------------|---------------|---------------|-----------------------------------|-----------|-------|
| <b>LCS</b>             | Sample ID: FLCSS1-100616-43776 |      |         |               | Units: mg/Kg   |               |               | Analysis Date: 6/17/2010 11:23 AM |           |       |
| Client ID:             | Run ID: FID-7_100616B          |      |         |               | SeqNo: 2011220 |               |               | Prep Date: 6/16/2010              |           | DF: 1 |
| Analyte                | Result                         | PQL  | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| TPH (Diesel Range)     | 27.4                           | 1.7  | 33.33   |               | 0              | 82.2          | 70-130        | 0                                 |           |       |
| TPH (Motor Oil Range)  | 29.75                          | 3.4  | 33.33   |               | 0              | 89.3          | 70-130        | 0                                 |           |       |
| Surr: 2-Fluorobiphenyl | 4.188                          | 0.10 | 3.33    |               | 0              | 126           | 70-130        | 0                                 |           |       |

|                        |                          |      |         |               |                |               |               |                                   |           |       |
|------------------------|--------------------------|------|---------|---------------|----------------|---------------|---------------|-----------------------------------|-----------|-------|
| <b>MS</b>              | Sample ID: 1006499-01BMS |      |         |               | Units: mg/Kg   |               |               | Analysis Date: 6/17/2010 12:02 PM |           |       |
| Client ID: WSB-1 10'   | Run ID: FID-7_100616B    |      |         |               | SeqNo: 2011222 |               |               | Prep Date: 6/16/2010              |           | DF: 1 |
| Analyte                | Result                   | PQL  | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| TPH (Diesel Range)     | 32.4                     | 1.7  | 33.24   | 0.1141        | 97.1           | 70-130        |               | 0                                 |           |       |
| TPH (Motor Oil Range)  | 40.45                    | 3.4  | 33.24   | 0.5472        | 120            | 70-130        |               | 0                                 |           |       |
| Surr: 2-Fluorobiphenyl | 4.221                    | 0.10 | 3.321   |               | 0              | 127           | 70-130        | 0                                 |           |       |

|                        |                           |      |         |               |                |               |               |                                   |           |       |
|------------------------|---------------------------|------|---------|---------------|----------------|---------------|---------------|-----------------------------------|-----------|-------|
| <b>MSD</b>             | Sample ID: 1006499-01BMSD |      |         |               | Units: mg/Kg   |               |               | Analysis Date: 6/17/2010 12:40 PM |           |       |
| Client ID: WSB-1 10'   | Run ID: FID-7_100616B     |      |         |               | SeqNo: 2011223 |               |               | Prep Date: 6/16/2010              |           | DF: 1 |
| Analyte                | Result                    | PQL  | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| TPH (Diesel Range)     | 34.93                     | 1.7  | 33.27   | 0.1141        | 105            | 70-130        | 32.4          | 7.49                              | 30        |       |
| TPH (Motor Oil Range)  | 42.68                     | 3.4  | 33.27   | 0.5472        | 127            | 70-130        | 40.45         | 5.38                              | 30        |       |
| Surr: 2-Fluorobiphenyl | 4.112                     | 0.10 | 3.324   |               | 0              | 124           | 70-130        | 4.221                             | 2.62      | 30    |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-01B | 1006499-02B | 1006499-03B |
| 1006499-04B | 1006499-05B | 1006499-06B |
| 1006499-07B | 1006499-08B | 1006499-09B |
| 1006499-10B | 1006499-11B | 1006499-12B |
| 1006499-13B | 1006499-14B | 1006499-15B |
| 1006499-16B | 1006499-17B | 1006499-18B |
| 1006499-19B | 1006499-20B |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

# QC BATCH REPORT

Batch ID: 43777 Instrument ID FID-8 Method: SW8015M

MBLK Sample ID: FBLKS2-100616-43777 Units: mg/Kg Analysis Date: 6/17/2010 03:35 PM

Client ID: Run ID: FID-8\_100616A SeqNo: 2011116 Prep Date: 6/16/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.74   | 0.10 | 3.33    | 0             | 112  | 70-130        | 0             |      |           |      |

LCS Sample ID: FLCSS2-100616-43777 Units: mg/Kg Analysis Date: 6/29/2010 12:11 PM

Client ID: Run ID: FID-8\_100616A SeqNo: 2011408 Prep Date: 6/16/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 28.64  | 1.7  | 33.33   | 0             | 85.9 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 28.25  | 3.4  | 33.33   | 0             | 84.8 | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.27   | 0.10 | 3.33    | 0             | 98.2 | 70-130        | 0             |      |           |      |

MS Sample ID: 1006499-21BMS Units: mg/Kg Analysis Date: 6/17/2010 04:35 PM

Client ID: WSB-3 60' Run ID: FID-8\_100616A SeqNo: 2011119 Prep Date: 6/16/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 30.22  | 1.7  | 33.32   | 0.08056       | 90.4 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 31.33  | 3.4  | 33.32   | 0.7924        | 91.7 | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.958  | 0.10 | 3.329   | 0             | 119  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1006499-21BMSD Units: mg/Kg Analysis Date: 6/17/2010 04:54 PM

Client ID: WSB-3 60' Run ID: FID-8\_100616A SeqNo: 2011121 Prep Date: 6/16/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 35.36  | 1.7  | 33.27   | 0.08056       | 106  | 70-130        | 30.22         | 15.7 | 30        |      |
| TPH (Motor Oil Range)  | 34.69  | 3.4  | 33.27   | 0.7924        | 102  | 70-130        | 31.33         | 10.2 | 30        |      |
| Surr: 2-Fluorobiphenyl | 4.182  | 0.10 | 3.324   | 0             | 126  | 70-130        | 3.958         | 5.49 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-21B | 1006499-22B | 1006499-23B |
| 1006499-24B | 1006499-25B | 1006499-26B |
| 1006499-27B | 1006499-28B | 1006499-29B |
| 1006499-30B | 1006499-31B | 1006499-32B |
| 1006499-33B | 1006499-34B | 1006499-35B |
| 1006499-36B | 1006499-37B | 1006499-38B |
| 1006499-39B | 1006499-40B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006499  
Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: 43783 Instrument ID FID-8 Method: SW8015M

MBLK Sample ID: FBLKS3-100616-43783 Units: mg/Kg Analysis Date: 6/19/2010 01:12 PM

Client ID: Run ID: FID-8\_100616B SeqNo: 2011882 Prep Date: 6/16/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.639  | 0.10 | 3.33    | 0             | 109  | 70-130        | 0             |      |           |      |

LCS Sample ID: FLCSS3-100616-43783 Units: mg/Kg Analysis Date: 6/19/2010 01:32 PM

Client ID: Run ID: FID-8\_100616B SeqNo: 2011883 Prep Date: 6/16/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 38.02  | 1.7  | 33.33   | 0             | 114  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 38.58  | 3.4  | 33.33   | 0             | 116  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.964  | 0.10 | 3.33    | 0             | 119  | 70-130        | 0             |      |           |      |

MS Sample ID: 1006499-41BMS Units: mg/Kg Analysis Date: 6/19/2010 02:49 PM

Client ID: WSB-6 110' Run ID: FID-8\_100616B SeqNo: 2011885 Prep Date: 6/16/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 34.14  | 1.7  | 33.32   | 0.1201        | 102  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 38.13  | 3.4  | 33.32   | 0.6329        | 113  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.834  | 0.10 | 3.329   | 0             | 115  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1006499-41BMSD Units: mg/Kg Analysis Date: 6/19/2010 03:08 PM

Client ID: WSB-6 110' Run ID: FID-8\_100616B SeqNo: 2011886 Prep Date: 6/16/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| TPH (Diesel Range)     | 33.11  | 1.7  | 33.24   | 0.1201        | 99.2 | 70-130        | 34.14         | 3.05  | 30        |      |
| TPH (Motor Oil Range)  | 38.46  | 3.4  | 33.24   | 0.6329        | 114  | 70-130        | 38.13         | 0.865 | 30        |      |
| Surr: 2-Fluorobiphenyl | 3.962  | 0.10 | 3.321   | 0             | 119  | 70-130        | 3.834         | 3.29  | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-41B | 1006499-42B | 1006499-43B |
| 1006499-44B | 1006499-45B | 1006499-46B |
| 1006499-47B | 1006499-48B | 1006499-49B |
| 1006499-50B | 1006499-51B | 1006499-52B |
| 1006499-53B | 1006499-54B | 1006499-55B |
| 1006499-56B | 1006499-57B | 1006499-58B |
| 1006499-59B | 1006499-60B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

# QC BATCH REPORT

Batch ID: 43784 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS4-100616-43784 Units: mg/Kg Analysis Date: 6/17/2010 05:53 PM

Client ID: Run ID: FID-7\_100616A SeqNo: 2011012 Prep Date: 6/16/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.443  | 0.10 | 3.33    | 0             | 103  | 70-130        | 0             |      |           |      |

LCS Sample ID: FLCSS4-100616-43784 Units: mg/Kg Analysis Date: 6/17/2010 06:12 PM

Client ID: Run ID: FID-7\_100616A SeqNo: 2011013 Prep Date: 6/16/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 32.73  | 1.7  | 33.33   | 0             | 98.2 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 34.95  | 3.4  | 33.33   | 0             | 105  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.119  | 0.10 | 3.33    | 0             | 124  | 70-130        | 0             |      |           |      |

MS Sample ID: 1006499-61BMS Units: mg/Kg Analysis Date: 6/17/2010 06:51 PM

Client ID: WSB-7 20' Run ID: FID-7\_100616A SeqNo: 2011015 Prep Date: 6/16/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 35.43  | 1.7  | 33.27   | 1.462         | 102  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 42.43  | 3.4  | 33.27   | 1.479         | 123  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.917  | 0.10 | 3.324   | 0             | 118  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1006499-61BMSD Units: mg/Kg Analysis Date: 6/17/2010 07:10 PM

Client ID: WSB-7 20' Run ID: FID-7\_100616A SeqNo: 2011016 Prep Date: 6/16/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| TPH (Diesel Range)     | 35.14  | 1.7  | 33.3    | 1.462         | 101  | 70-130        | 35.43         | 0.833 | 30        |      |
| TPH (Motor Oil Range)  | 43.92  | 3.4  | 33.3    | 1.479         | 127  | 70-130        | 42.43         | 3.43  | 30        |      |
| Surr: 2-Fluorobiphenyl | 4.171  | 0.10 | 3.327   | 0             | 125  | 70-130        | 3.917         | 6.28  | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-61B | 1006499-62B | 1006499-63B |
| 1006499-64B | 1006499-65B | 1006499-66B |
| 1006499-67B | 1006499-68B | 1006499-69B |
| 1006499-70B |             |             |

Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: R92860 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061810-R92860 Units: µg/Kg Analysis Date: 6/18/2010 08:17 PM

Client ID: Run ID: BTEX3\_100618A SeqNo: 2001397 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 28.16  | 1.0 | 30      | 0             | 93.9 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.52  | 1.0 | 30      | 0             | 102  | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-061810-R92860 Units: µg/Kg Analysis Date: 6/18/2010 07:47 PM

Client ID: Run ID: BTEX3\_100618A SeqNo: 2001396 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 23.09  | 1.0 | 20      | 0             | 115  | 74-129        | 0             |      |           |      |
| Toluene                    | 23.7   | 1.0 | 20      | 0             | 118  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 22.26  | 1.0 | 20      | 0             | 111  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 68.04  | 3.0 | 60      | 0             | 113  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 28.77  | 1.0 | 30      | 0             | 95.9 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.03  | 1.0 | 30      | 0             | 103  | 73-130        | 0             |      |           |      |

MS Sample ID: 1006499-06AMS Units: µg/Kg Analysis Date: 6/18/2010 10:38 PM

Client ID: WSB-1 60' Run ID: BTEX3\_100618A SeqNo: 2001404 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.06  | 1.0 | 20      | 0             | 110  | 74-129        | 0             |      |           |      |
| Toluene                    | 22.65  | 1.0 | 20      | 0             | 113  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 20.99  | 1.0 | 20      | 0             | 105  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 64.73  | 3.0 | 60      | 0             | 108  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.82  | 1.0 | 30      | 0             | 99.4 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 32.15  | 1.0 | 30      | 0             | 107  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1006499-06AMSD Units: µg/Kg Analysis Date: 6/18/2010 10:58 PM

Client ID: WSB-1 60' Run ID: BTEX3\_100618A SeqNo: 2001405 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.36  | 1.0 | 20      | 0             | 112  | 74-129        | 22.06         | 1.34 | 30        |      |
| Toluene                    | 22.94  | 1.0 | 20      | 0             | 115  | 75-128        | 22.65         | 1.28 | 30        |      |
| Ethylbenzene               | 21.28  | 1.0 | 20      | 0             | 106  | 73-127        | 20.99         | 1.36 | 30        |      |
| Xylenes, Total             | 65.44  | 3.0 | 60      | 0             | 109  | 74-127        | 64.73         | 1.1  | 30        |      |
| Surr: 4-Bromofluorobenzene | 30.4   | 1.0 | 30      | 0             | 101  | 75-131        | 29.82         | 1.92 | 30        |      |
| Surr: Trifluorotoluene     | 33.15  | 1.0 | 30      | 0             | 110  | 73-130        | 32.15         | 3.04 | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Navajo Refining Company  
**Work Order:** 1006499  
**Project:** Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: R92860

Instrument ID BTEX3

Method: SW8021B

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-01A | 1006499-02A | 1006499-03A |
| 1006499-04A | 1006499-05A | 1006499-06A |
| 1006499-07A | 1006499-08A | 1006499-09A |
| 1006499-10A | 1006499-11A | 1006499-12A |
| 1006499-13A | 1006499-14A | 1006499-15A |
| 1006499-16A | 1006499-17A | 1006499-18A |
| 1006499-19A | 1006499-20A |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

# QC BATCH REPORT

Batch ID: R92861 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061910-R92861 Units: µg/Kg Analysis Date: 6/19/2010 06:16 AM

Client ID: Run ID: BTEX3\_100618B SeqNo: 2001426 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 28.5   | 1.0 | 30      | 0             | 95   | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.23  | 1.0 | 30      | 0             | 101  | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-061910-R92861 Units: µg/Kg Analysis Date: 6/19/2010 05:36 AM

Client ID: Run ID: BTEX3\_100618B SeqNo: 2001425 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.55  | 1.0 | 20      | 0             | 113  | 74-129        | 0             |      |           |      |
| Toluene                    | 22.37  | 1.0 | 20      | 0             | 112  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.22  | 1.0 | 20      | 0             | 106  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 65.12  | 3.0 | 60      | 0             | 109  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.95  | 1.0 | 30      | 0             | 99.8 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 33.14  | 1.0 | 30      | 0             | 110  | 73-130        | 0             |      |           |      |

MS Sample ID: 1006499-26AMS Units: µg/Kg Analysis Date: 6/19/2010 08:36 AM

Client ID: WSB-3 110' Run ID: BTEX3\_100618B SeqNo: 2001433 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.62  | 1.0 | 20      | 0             | 113  | 74-129        | 0             |      |           |      |
| Toluene                    | 22.88  | 1.0 | 20      | 0             | 114  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.05  | 1.0 | 20      | 0             | 105  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 65.27  | 3.0 | 60      | 0             | 109  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.87  | 1.0 | 30      | 0             | 103  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 33.14  | 1.0 | 30      | 0             | 110  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1006499-26AMSD Units: µg/Kg Analysis Date: 6/19/2010 08:55 AM

Client ID: WSB-3 110' Run ID: BTEX3\_100618B SeqNo: 2001434 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.19  | 1.0 | 20      | 0             | 111  | 74-129        | 22.62         | 1.96 | 30        |      |
| Toluene                    | 22.42  | 1.0 | 20      | 0             | 112  | 75-128        | 22.88         | 2    | 30        |      |
| Ethylbenzene               | 20.8   | 1.0 | 20      | 0             | 104  | 73-127        | 21.05         | 1.17 | 30        |      |
| Xylenes, Total             | 64.05  | 3.0 | 60      | 0             | 107  | 74-127        | 65.27         | 1.89 | 30        |      |
| Surr: 4-Bromofluorobenzene | 31.41  | 1.0 | 30      | 0             | 105  | 75-131        | 30.87         | 1.73 | 30        |      |
| Surr: Trifluorotoluene     | 32.61  | 1.0 | 30      | 0             | 109  | 73-130        | 33.14         | 1.61 | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1006499  
**Project:** Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: **R92861**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-21A | 1006499-22A | 1006499-23A |
| 1006499-24A | 1006499-25A | 1006499-26A |
| 1006499-27A | 1006499-29A | 1006499-31A |
| 1006499-32A | 1006499-33A | 1006499-34A |
| 1006499-35A | 1006499-36A | 1006499-37A |
| 1006499-38A | 1006499-39A | 1006499-40A |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006499  
Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: R92862 Instrument ID BTEX3 Method: SW8021B

|                            |                                 |     |                |               |                                   |               |               |      |           |      |
|----------------------------|---------------------------------|-----|----------------|---------------|-----------------------------------|---------------|---------------|------|-----------|------|
| MBLK                       | Sample ID: BBLKS1-061910-R92862 |     | Units: µg/Kg   |               | Analysis Date: 6/19/2010 07:14 PM |               |               |      |           |      |
| Client ID:                 | Run ID: BTEX3_100619A           |     | SeqNo: 2001456 |               | Prep Date:                        |               | DF: 1         |      |           |      |
| Analyte                    | Result                          | PQL | SPK Val        | SPK Ref Value | %REC                              | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Benzene                    | ND                              | 1.0 |                |               |                                   |               |               |      |           |      |
| Toluene                    | ND                              | 1.0 |                |               |                                   |               |               |      |           |      |
| Ethylbenzene               | ND                              | 1.0 |                |               |                                   |               |               |      |           |      |
| Xylenes, Total             | ND                              | 3.0 |                |               |                                   |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 28.15                           | 1.0 | 30             | 0             | 93.8                              | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.71                           | 1.0 | 30             | 0             | 102                               | 73-130        | 0             |      |           |      |

|                            |                                 |     |                |               |                                   |               |               |      |           |      |
|----------------------------|---------------------------------|-----|----------------|---------------|-----------------------------------|---------------|---------------|------|-----------|------|
| LCS                        | Sample ID: BLCSS1-061910-R92862 |     | Units: µg/Kg   |               | Analysis Date: 6/19/2010 06:54 PM |               |               |      |           |      |
| Client ID:                 | Run ID: BTEX3_100619A           |     | SeqNo: 2001455 |               | Prep Date:                        |               | DF: 1         |      |           |      |
| Analyte                    | Result                          | PQL | SPK Val        | SPK Ref Value | %REC                              | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Benzene                    | 22.88                           | 1.0 | 20             | 0             | 114                               | 74-129        | 0             |      |           |      |
| Toluene                    | 23.45                           | 1.0 | 20             | 0             | 117                               | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 22.47                           | 1.0 | 20             | 0             | 112                               | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 69.41                           | 3.0 | 60             | 0             | 116                               | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 31.09                           | 1.0 | 30             | 0             | 104                               | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 32.08                           | 1.0 | 30             | 0             | 107                               | 73-130        | 0             |      |           |      |

|                            |                          |     |                |               |                                   |               |               |      |           |      |
|----------------------------|--------------------------|-----|----------------|---------------|-----------------------------------|---------------|---------------|------|-----------|------|
| MS                         | Sample ID: 1006499-41AMS |     | Units: µg/Kg   |               | Analysis Date: 6/19/2010 07:54 PM |               |               |      |           |      |
| Client ID: WSB-6 110'      | Run ID: BTEX3_100619A    |     | SeqNo: 2001466 |               | Prep Date:                        |               | DF: 1         |      |           |      |
| Analyte                    | Result                   | PQL | SPK Val        | SPK Ref Value | %REC                              | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Benzene                    | 20.25                    | 1.0 | 20             | 0             | 101                               | 74-129        | 0             |      |           |      |
| Toluene                    | 19.95                    | 1.0 | 20             | 0             | 99.8                              | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 19.59                    | 1.0 | 20             | 0             | 97.9                              | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 59.86                    | 3.0 | 60             | 0             | 99.8                              | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.67                    | 1.0 | 30             | 0             | 98.9                              | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.43                    | 1.0 | 30             | 0             | 101                               | 73-130        | 0             |      |           |      |

|                            |                           |     |                |               |                                   |               |               |       |           |      |
|----------------------------|---------------------------|-----|----------------|---------------|-----------------------------------|---------------|---------------|-------|-----------|------|
| MSD                        | Sample ID: 1006499-41AMSD |     | Units: µg/Kg   |               | Analysis Date: 6/19/2010 08:14 PM |               |               |       |           |      |
| Client ID: WSB-6 110'      | Run ID: BTEX3_100619A     |     | SeqNo: 2001467 |               | Prep Date:                        |               | DF: 1         |       |           |      |
| Analyte                    | Result                    | PQL | SPK Val        | SPK Ref Value | %REC                              | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
| Benzene                    | 20.85                     | 1.0 | 20             | 0             | 104                               | 74-129        | 20.25         | 2.94  | 30        |      |
| Toluene                    | 20.43                     | 1.0 | 20             | 0             | 102                               | 75-128        | 19.95         | 2.36  | 30        |      |
| Ethylbenzene               | 19.96                     | 1.0 | 20             | 0             | 99.8                              | 73-127        | 19.59         | 1.87  | 30        |      |
| Xylenes, Total             | 60.92                     | 3.0 | 60             | 0             | 102                               | 74-127        | 59.86         | 1.77  | 30        |      |
| Surr: 4-Bromofluorobenzene | 29.61                     | 1.0 | 30             | 0             | 98.7                              | 75-131        | 29.67         | 0.188 | 30        |      |
| Surr: Trifluorotoluene     | 31.15                     | 1.0 | 30             | 0             | 104                               | 73-130        | 30.43         | 2.32  | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006499  
Project: Lea Refinery Soil Borings

QC BATCH REPORT

Batch ID: R92862      Instrument ID BTEX3      Method: SW8021B

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-41A | 1006499-49A | 1006499-50A |
| 1006499-54A | 1006499-55A | 1006499-58A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company

Work Order: 1006499

Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: R92863

Instrument ID BTEX3

Method: SW8021B

MBLK Sample ID: BBLKS1-062010-R92863 Units: µg/Kg Analysis Date: 6/20/2010 12:40 PM

Client ID: Run ID: BTEX3\_100620A SeqNo: 2001472 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | 0.3478 | 1.0 |         |               |      |               |               |      |           | J    |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 26.22  | 1.0 | 30      | 0             | 87.4 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 29.31  | 1.0 | 30      | 0             | 97.7 | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-062010-R92863 Units: µg/Kg Analysis Date: 6/20/2010 12:11 PM

Client ID: Run ID: BTEX3\_100620A SeqNo: 2001471 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 21.14  | 1.0 | 20      | 0             | 106  | 74-129        | 0             |      |           |      |
| Toluene                    | 20.64  | 1.0 | 20      | 0             | 103  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 19.31  | 1.0 | 20      | 0             | 96.6 | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 59.94  | 3.0 | 60      | 0             | 99.9 | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.02  | 1.0 | 30      | 0             | 96.7 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 29.45  | 1.0 | 30      | 0             | 98.2 | 73-130        | 0             |      |           |      |

MS Sample ID: 1006499-65AMS Units: µg/Kg Analysis Date: 6/20/2010 03:00 PM

Client ID: WSB-7 60' Run ID: BTEX3\_100620A SeqNo: 2001479 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.07  | 1.0 | 20      | 0             | 100  | 74-129        | 0             |      |           |      |
| Toluene                    | 19.65  | 1.0 | 20      | 0             | 98.3 | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 19.11  | 1.0 | 20      | 0             | 95.5 | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 58.5   | 3.0 | 60      | 0             | 97.5 | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.41  | 1.0 | 30      | 0             | 98   | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.35  | 1.0 | 30      | 0             | 101  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1006499-65AMSD Units: µg/Kg Analysis Date: 6/20/2010 03:20 PM

Client ID: WSB-7 60' Run ID: BTEX3\_100620A SeqNo: 2001480 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.54  | 1.0 | 20      | 0             | 103  | 74-129        | 20.07         | 2.31 | 30        |      |
| Toluene                    | 19.98  | 1.0 | 20      | 0             | 99.9 | 75-128        | 19.65         | 1.67 | 30        |      |
| Ethylbenzene               | 19.35  | 1.0 | 20      | 0             | 96.8 | 73-127        | 19.11         | 1.29 | 30        |      |
| Xylenes, Total             | 59.45  | 3.0 | 60      | 0             | 99.1 | 74-127        | 58.5          | 1.62 | 30        |      |
| Surr: 4-Bromofluorobenzene | 30.86  | 1.0 | 30      | 0             | 103  | 75-131        | 29.41         | 4.82 | 30        |      |
| Surr: Trifluorotoluene     | 31.55  | 1.0 | 30      | 0             | 105  | 73-130        | 30.35         | 3.89 | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1006499  
**Project:** Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: **R92863** Instrument ID **BTEX3** Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-56A | 1006499-57A | 1006499-59A |
| 1006499-60A | 1006499-61A | 1006499-62A |
| 1006499-63A | 1006499-64A | 1006499-65A |
| 1006499-66A | 1006499-67A | 1006499-68A |
| 1006499-69A | 1006499-70A |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

# QC BATCH REPORT

Batch ID: R92887 Instrument ID BTEX1 Method: SW8021B

MBLK Sample ID: BBLKW1-062110-R92887 Units: µg/L Analysis Date: 6/21/2010 08:29 PM

Client ID: Run ID: BTEX1\_100621A SeqNo: 2002121 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 24.87  | 1.0 | 30      | 0             | 82.9 | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 25.67  | 1.0 | 30      | 0             | 85.6 | 75-130        | 0             |      |           |      |

MBLK Sample ID: MEOHW1-062110-R92887 Units: µg/L Analysis Date: 6/21/2010 11:50 PM

Client ID: Run ID: BTEX1\_100621A SeqNo: 2002132 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 24.61  | 1.0 | 30      | 0             | 82   | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 25.57  | 1.0 | 30      | 0             | 85.2 | 75-130        | 0             |      |           |      |

LCS Sample ID: BLCSW1-062110-R92887 Units: µg/L Analysis Date: 6/21/2010 08:12 PM

Client ID: Run ID: BTEX1\_100621A SeqNo: 2002120 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.44  | 1.0 | 20      | 0             | 97.2 | 77-126        | 0             |      |           |      |
| Toluene                    | 18.53  | 1.0 | 20      | 0             | 92.7 | 80-124        | 0             |      |           |      |
| Ethylbenzene               | 18.91  | 1.0 | 20      | 0             | 94.6 | 76-125        | 0             |      |           |      |
| Xylenes, Total             | 55.23  | 3.0 | 60      | 0             | 92.1 | 79-124        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 25.79  | 1.0 | 30      | 0             | 86   | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 25.95  | 1.0 | 30      | 0             | 86.5 | 75-130        | 0             |      |           |      |

LCSD Sample ID: BLCSW1-062110-R92887 Units: µg/L Analysis Date: 6/21/2010 11:32 PM

Client ID: Run ID: BTEX1\_100621A SeqNo: 2002131 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.73  | 1.0 | 20      | 0             | 98.6 | 77-126        | 21.89         | 0    | 20        |      |
| Toluene                    | 19.21  | 1.0 | 20      | 0             | 96   | 80-124        | 20.41         | 0    | 20        |      |
| Ethylbenzene               | 19.55  | 1.0 | 20      | 0             | 97.8 | 76-125        | 20.8          | 0    | 20        |      |
| Xylenes, Total             | 57.3   | 3.0 | 60      | 0             | 95.5 | 79-124        | 60.26         | 0    | 20        |      |
| Surr: 4-Bromofluorobenzene | 25.54  | 1.0 | 30      | 0             | 85.1 | 77-129        | 26.03         | 0    | 20        |      |
| Surr: Trifluorotoluene     | 25.49  | 1.0 | 30      | 0             | 85   | 75-130        | 25.67         | 0    | 20        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

# QC BATCH REPORT

Batch ID: R92887 Instrument ID BTEX1 Method: SW8021B

MS Sample ID: 1006485-05AMS Units: µg/L Analysis Date: 6/21/2010 10:39 PM

Client ID: Run ID: BTEX1\_100621A SeqNo: 2002128 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 18.52  | 1.0 | 20      | 0.5836        | 89.7 | 77-126        | 0             |      |           |      |
| Toluene                    | 14.84  | 1.0 | 20      | 0             | 74.2 | 80-124        | 0             |      |           | S    |
| Ethylbenzene               | 13.88  | 1.0 | 20      | 0             | 69.4 | 76-125        | 0             |      |           | S    |
| Xylenes, Total             | 40.78  | 3.0 | 60      | 0             | 68   | 79-124        | 0             |      |           | S    |
| Surr: 4-Bromofluorobenzene | 26.13  | 1.0 | 30      | 0             | 87.1 | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 26.51  | 1.0 | 30      | 0             | 88.4 | 75-130        | 0             |      |           |      |

MSD Sample ID: 1006485-05AMSD Units: µg/L Analysis Date: 6/21/2010 10:56 PM

Client ID: Run ID: BTEX1\_100621A SeqNo: 2002129 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 17.69  | 1.0 | 20      | 0.5836        | 85.5 | 77-126        | 18.52         | 4.58 | 20        |      |
| Toluene                    | 14.08  | 1.0 | 20      | 0             | 70.4 | 80-124        | 14.84         | 5.27 | 20        | S    |
| Ethylbenzene               | 12.88  | 1.0 | 20      | 0             | 64.4 | 76-125        | 13.88         | 7.47 | 20        | S    |
| Xylenes, Total             | 38.42  | 3.0 | 60      | 0             | 64   | 79-124        | 40.78         | 5.95 | 20        | S    |
| Surr: 4-Bromofluorobenzene | 25.78  | 1.0 | 30      | 0             | 85.9 | 77-129        | 26.13         | 1.35 | 20        |      |
| Surr: Trifluorotoluene     | 26.16  | 1.0 | 30      | 0             | 87.2 | 75-130        | 26.51         | 1.35 | 20        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-28A | 1006499-30A | 1006499-42A |
| 1006499-43A | 1006499-44A | 1006499-45A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006499  
Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: R92907 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKW1-062110-R92907 Units: µg/L Analysis Date: 6/21/2010 10:54 PM

Client ID: Run ID: BTEX3\_100621B SeqNo: 2002586 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Methyl tert-butyl ether    | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 27.39  | 1.0 | 30      | 0             | 91.3 | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.53  | 1.0 | 30      | 0             | 105  | 75-130        | 0             |      |           |      |

LCS Sample ID: BLCSW1-062110-R92907 Units: µg/L Analysis Date: 6/21/2010 10:33 PM

Client ID: Run ID: BTEX3\_100621B SeqNo: 2002585 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 21.39  | 1.0 | 20      | 0             | 107  | 77-126        | 0             |      |           |      |
| Toluene                    | 21.63  | 1.0 | 20      | 0             | 108  | 80-124        | 0             |      |           |      |
| Ethylbenzene               | 21.72  | 1.0 | 20      | 0             | 109  | 76-125        | 0             |      |           |      |
| Methyl tert-butyl ether    | 98.48  | 5.0 | 100     | 0             | 98.5 | 75-128        | 0             |      |           |      |
| Xylenes, Total             | 65.63  | 3.0 | 60      | 0             | 109  | 79-124        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.27  | 1.0 | 30      | 0             | 108  | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 33.8   | 1.0 | 30      | 0             | 113  | 75-130        | 0             |      |           |      |

MS Sample ID: 1006572-02AMS Units: µg/L Analysis Date: 6/22/2010 06:31 AM

Client ID: Run ID: BTEX3\_100621B SeqNo: 2002611 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 24.64  | 1.0 | 20      | 0             | 123  | 77-126        | 0             |      |           |      |
| Toluene                    | 24.69  | 1.0 | 20      | 0             | 123  | 80-124        | 0             |      |           |      |
| Ethylbenzene               | 24.36  | 1.0 | 20      | 0             | 122  | 76-125        | 0             |      |           |      |
| Methyl tert-butyl ether    | 115.9  | 5.0 | 100     | 0             | 116  | 75-128        | 0             |      |           |      |
| Xylenes, Total             | 73.69  | 3.0 | 60      | 0             | 123  | 79-124        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 27.77  | 1.0 | 30      | 0             | 92.6 | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.62  | 1.0 | 30      | 0             | 102  | 75-130        | 0             |      |           |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006499  
Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: R92907 Instrument ID BTEX3 Method: SW8021B

|                            |                           |     |         |               |                |               |               |                                   |           |       |
|----------------------------|---------------------------|-----|---------|---------------|----------------|---------------|---------------|-----------------------------------|-----------|-------|
| MSD                        | Sample ID: 1006572-02AMSD |     |         |               | Units: µg/L    |               |               | Analysis Date: 6/22/2010 06:51 AM |           |       |
| Client ID:                 | Run ID: BTEX3_100621B     |     |         |               | SeqNo: 2002612 |               |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result                    | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | 24.7                      | 1.0 | 20      | 0             | 124            | 77-126        | 24.64         | 0.266                             | 20        |       |
| Toluene                    | 24.85                     | 1.0 | 20      | 0             | 124            | 80-124        | 24.69         | 0.65                              | 20        | S     |
| Ethylbenzene               | 24.7                      | 1.0 | 20      | 0             | 124            | 76-125        | 24.36         | 1.39                              | 20        |       |
| Methyl tert-butyl ether    | 115.7                     | 5.0 | 100     | 0             | 116            | 75-128        | 115.9         | 0.191                             | 20        |       |
| Xylenes, Total             | 73.71                     | 3.0 | 60      | 0             | 123            | 79-124        | 73.69         | 0.0258                            | 20        |       |
| Surr: 4-Bromofluorobenzene | 27.25                     | 1.0 | 30      | 0             | 90.8           | 77-129        | 27.77         | 1.91                              | 20        |       |
| Surr: Trifluorotoluene     | 31.1                      | 1.0 | 30      | 0             | 104            | 75-130        | 30.62         | 1.55                              | 20        |       |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-71A | 1006499-72A | 1006499-73A |
|-------------|-------------|-------------|

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006499  
Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: R92979 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-061910-R92979 Units: mg/Kg Analysis Date: 6/19/2010 01:23 AM

Client ID: Run ID: FID-9\_100618B SeqNo: 2004346 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND      | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.09644 | 0.0050 | 0.1     | 0             | 96.4 | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-061910-R92979 Units: mg/Kg Analysis Date: 6/19/2010 01:00 AM

Client ID: Run ID: FID-9\_100618B SeqNo: 2004345 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.117  | 0.050  | 1       | 0             | 112  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1033 | 0.0050 | 0.1     | 0             | 103  | 70-130        | 0             |      |           |      |

MS Sample ID: 1006499-01BMS Units: mg/Kg Analysis Date: 6/19/2010 06:02 AM

Client ID: WSB-1 10' Run ID: FID-9\_100618B SeqNo: 2004357 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.184  | 0.050  | 1       | 0             | 118  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1048 | 0.0050 | 0.1     | 0             | 105  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1006499-01BMSD Units: mg/Kg Analysis Date: 6/19/2010 06:25 AM

Client ID: WSB-1 10' Run ID: FID-9\_100618B SeqNo: 2004358 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Gasoline Range Organics    | 1.162  | 0.050  | 1       | 0             | 116  | 70-130        | 1.184         | 1.81  | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.105  | 0.0050 | 0.1     | 0             | 105  | 70-130        | 0.1048        | 0.239 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-01B | 1006499-02B | 1006499-03B |
| 1006499-04B | 1006499-05B | 1006499-06B |
| 1006499-07B |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

# QC BATCH REPORT

Batch ID: R93007 Instrument ID BTEX1 Method: SW8021B

MBLK Sample ID: MEOHW1-062210-R93007 Units: µg/L Analysis Date: 6/22/2010 06:43 AM

Client ID: Run ID: BTEX1\_100621B SeqNo: 2004816 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 24.64  | 1.0 | 30      | 0             | 82.1 | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 25.45  | 1.0 | 30      | 0             | 84.8 | 75-130        | 0             |      |           |      |

MBLK Sample ID: BBLKW1-062210-R93007 Units: µg/L Analysis Date: 6/22/2010 07:02 AM

Client ID: Run ID: BTEX1\_100621B SeqNo: 2004817 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 24.91  | 1.0 | 30      | 0             | 83   | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 25.17  | 1.0 | 30      | 0             | 83.9 | 75-130        | 0             |      |           |      |

LCS Sample ID: BLCSW1-062210-R93007 Units: µg/L Analysis Date: 6/22/2010 12:22 PM

Client ID: Run ID: BTEX1\_100621B SeqNo: 2004828 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 21.68  | 1.0 | 20      | 0             | 108  | 77-126        | 0             |      |           |      |
| Toluene                    | 20.23  | 1.0 | 20      | 0             | 101  | 80-124        | 0             |      |           |      |
| Ethylbenzene               | 20.63  | 1.0 | 20      | 0             | 103  | 76-125        | 0             |      |           |      |
| Xylenes, Total             | 59.76  | 3.0 | 60      | 0             | 99.6 | 79-124        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 24.97  | 1.0 | 30      | 0             | 83.2 | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 26.63  | 1.0 | 30      | 0             | 88.8 | 75-130        | 0             |      |           |      |

MS Sample ID: 1006437-06AMS Units: µg/L Analysis Date: 6/22/2010 09:51 AM

Client ID: Run ID: BTEX1\_100621B SeqNo: 2004826 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.82  | 1.0 | 20      | 0             | 114  | 77-126        | 0             |      |           |      |
| Toluene                    | 20.1   | 1.0 | 20      | 0             | 101  | 80-124        | 0             |      |           |      |
| Ethylbenzene               | 20.38  | 1.0 | 20      | 0             | 102  | 76-125        | 0             |      |           |      |
| Xylenes, Total             | 58.75  | 3.0 | 60      | 0             | 97.9 | 79-124        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 26.39  | 1.0 | 30      | 0             | 88   | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 26.21  | 1.0 | 30      | 0             | 87.4 | 75-130        | 0             |      |           |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006499  
Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: R93007 Instrument ID BTEX1 Method: SW8021B

MSD Sample ID: 1006437-06AMSD Units: µg/L Analysis Date: 6/22/2010 11:32 AM

Client ID: Run ID: BTEX1\_100621B SeqNo: 2004827 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.58  | 1.0 | 20      | 0             | 97.9 | 77-126        | 22.82         | 15.3 | 20        |      |
| Toluene                    | 18.11  | 1.0 | 20      | 0             | 90.6 | 80-124        | 20.1          | 10.4 | 20        |      |
| Ethylbenzene               | 18.01  | 1.0 | 20      | 0             | 90.1 | 76-125        | 20.38         | 12.3 | 20        |      |
| Xylenes, Total             | 52.95  | 3.0 | 60      | 0             | 88.2 | 79-124        | 58.75         | 10.4 | 20        |      |
| Surr: 4-Bromofluorobenzene | 25.44  | 1.0 | 30      | 0             | 84.8 | 77-129        | 26.39         | 3.66 | 20        |      |
| Surr: Trifluorotoluene     | 26.66  | 1.0 | 30      | 0             | 88.9 | 75-130        | 26.21         | 1.7  | 20        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-46A | 1006499-47A | 1006499-48A |
| 1006499-51A | 1006499-52A | 1006499-53A |
| 1006499-57A | 1006499-62A |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: R93037 Instrument ID BTEX1 Method: SW8021B

| MBLK                       |        | Sample ID: MEOHW1-062310-R93037 |         |               |      | Units: µg/L    |               | Analysis Date: 6/23/2010 05:10 PM |           |       |
|----------------------------|--------|---------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX1_100623A           |         |               |      | SeqNo: 2005693 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Toluene                    | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Ethylbenzene               | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Xylenes, Total             | ND     | 3.0                             |         |               |      |                |               |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 25.78  | 1.0                             | 30      | 0             | 85.9 | 77-129         | 0             |                                   |           |       |
| Surr: Trifluorotoluene     | 25.95  | 1.0                             | 30      | 0             | 86.5 | 75-130         | 0             |                                   |           |       |

| MBLK                       |        | Sample ID: BBLKW1-062310-R93037 |         |               |      | Units: µg/L    |               | Analysis Date: 6/23/2010 05:27 PM |           |       |
|----------------------------|--------|---------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX1_100623A           |         |               |      | SeqNo: 2005694 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Toluene                    | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Ethylbenzene               | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Xylenes, Total             | ND     | 3.0                             |         |               |      |                |               |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 25.83  | 1.0                             | 30      | 0             | 86.1 | 77-129         | 0             |                                   |           |       |
| Surr: Trifluorotoluene     | 26.99  | 1.0                             | 30      | 0             | 90   | 75-130         | 0             |                                   |           |       |

| LCS                        |        | Sample ID: BLCSW1-062310-R93037 |         |               |      | Units: µg/L    |               | Analysis Date: 6/23/2010 11:43 PM |           |       |
|----------------------------|--------|---------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX1_100623A           |         |               |      | SeqNo: 2005714 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | 22     | 1.0                             | 20      | 0             | 110  | 77-126         | 0             |                                   |           |       |
| Toluene                    | 19.77  | 1.0                             | 20      | 0             | 98.9 | 80-124         | 0             |                                   |           |       |
| Ethylbenzene               | 21.82  | 1.0                             | 20      | 0             | 109  | 76-125         | 0             |                                   |           |       |
| Xylenes, Total             | 58.41  | 3.0                             | 60      | 0             | 97.4 | 79-124         | 0             |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 25.92  | 1.0                             | 30      | 0             | 86.4 | 77-129         | 0             |                                   |           |       |
| Surr: Trifluorotoluene     | 25.72  | 1.0                             | 30      | 0             | 85.7 | 75-130         | 0             |                                   |           |       |

| MS                         |        | Sample ID: 1006437-29AMS |         |               |      | Units: µg/L    |               | Analysis Date: 6/23/2010 07:55 PM |           |       |
|----------------------------|--------|--------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX1_100623A    |         |               |      | SeqNo: 2005696 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                      | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | 23.46  | 1.0                      | 20      | 0             | 117  | 77-126         | 0             |                                   |           |       |
| Toluene                    | 20.27  | 1.0                      | 20      | 0             | 101  | 80-124         | 0             |                                   |           |       |
| Ethylbenzene               | 21.04  | 1.0                      | 20      | 0             | 105  | 76-125         | 0             |                                   |           |       |
| Xylenes, Total             | 59.26  | 3.0                      | 60      | 0             | 98.8 | 79-124         | 0             |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 25.43  | 1.0                      | 30      | 0             | 84.8 | 77-129         | 0             |                                   |           |       |
| Surr: Trifluorotoluene     | 26.64  | 1.0                      | 30      | 0             | 88.8 | 75-130         | 0             |                                   |           |       |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company

Work Order: 1006499

Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: R93037

Instrument ID BTEX1

Method: SW8021B

|                            |                           |     |         |               |                |               |                                   |       |           |      |
|----------------------------|---------------------------|-----|---------|---------------|----------------|---------------|-----------------------------------|-------|-----------|------|
| MSD                        | Sample ID: 1006437-29AMSD |     |         |               | Units: µg/L    |               | Analysis Date: 6/23/2010 08:12 PM |       |           |      |
| Client ID:                 | Run ID: BTEX1_100623A     |     |         |               | SeqNo: 2005697 |               | Prep Date:                        |       | DF: 1     |      |
| Analyte                    | Result                    | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD  | RPD Limit | Qual |
| Benzene                    | 22.11                     | 1.0 | 20      | 0             | 111            | 77-126        | 23.46                             | 5.94  | 20        |      |
| Toluene                    | 19.48                     | 1.0 | 20      | 0             | 97.4           | 80-124        | 20.27                             | 3.95  | 20        |      |
| Ethylbenzene               | 20.23                     | 1.0 | 20      | 0             | 101            | 76-125        | 21.04                             | 3.92  | 20        |      |
| Xylenes, Total             | 57.36                     | 3.0 | 60      | 0             | 95.6           | 79-124        | 59.26                             | 3.26  | 20        |      |
| Surr: 4-Bromofluorobenzene | 25.67                     | 1.0 | 30      | 0             | 85.6           | 77-129        | 25.43                             | 0.918 | 20        |      |
| Surr: Trifluorotoluene     | 26.55                     | 1.0 | 30      | 0             | 88.5           | 75-130        | 26.64                             | 0.331 | 20        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-43A | 1006499-47A | 1006499-52A |
| 1006499-53A |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

# QC BATCH REPORT

Batch ID: R93104 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-062430-R93104 Units: µg/Kg Analysis Date: 6/24/2010 01:57 PM  
 Client ID: Run ID: BTEX3\_100624B SeqNo: 2006998 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 27.73  | 1.0 | 30      | 0             | 92.4 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 27.52  | 1.0 | 30      | 0             | 91.7 | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-062410-R93104 Units: µg/Kg Analysis Date: 6/24/2010 01:37 PM  
 Client ID: Run ID: BTEX3\_100624B SeqNo: 2006996 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 21.76  | 1.0 | 20      | 0             | 109  | 74-129        | 0             |      |           |      |
| Toluene                    | 21.5   | 1.0 | 20      | 0             | 107  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.25  | 1.0 | 20      | 0             | 106  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 65.04  | 3.0 | 60      | 0             | 108  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.04  | 1.0 | 30      | 0             | 100  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 29.37  | 1.0 | 30      | 0             | 97.9 | 73-130        | 0             |      |           |      |

MS Sample ID: 1006812-08AMS Units: µg/Kg Analysis Date: 6/24/2010 07:29 PM  
 Client ID: Run ID: BTEX3\_100624B SeqNo: 2007016 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.92  | 1.0 | 20      | 0             | 99.6 | 74-129        | 0             |      |           |      |
| Toluene                    | 19.38  | 1.0 | 20      | 0             | 96.9 | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 18.52  | 1.0 | 20      | 0             | 92.6 | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 56.29  | 3.0 | 60      | 0             | 93.8 | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 27.28  | 1.0 | 30      | 0             | 90.9 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 25.65  | 1.0 | 30      | 0             | 85.5 | 73-130        | 0             |      |           |      |

MSD Sample ID: 1006812-08AMSD Units: µg/Kg Analysis Date: 6/24/2010 07:49 PM  
 Client ID: Run ID: BTEX3\_100624B SeqNo: 2007017 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.57  | 1.0 | 20      | 0             | 97.9 | 74-129        | 19.92         | 1.75 | 30        |      |
| Toluene                    | 18     | 1.0 | 20      | 0             | 90   | 75-128        | 19.38         | 7.39 | 30        |      |
| Ethylbenzene               | 16.92  | 1.0 | 20      | 0             | 84.6 | 73-127        | 18.52         | 9.03 | 30        |      |
| Xylenes, Total             | 51.35  | 3.0 | 60      | 0             | 85.6 | 74-127        | 56.29         | 9.18 | 30        |      |
| Surr: 4-Bromofluorobenzene | 29.51  | 1.0 | 30      | 0             | 98.4 | 75-131        | 27.28         | 7.84 | 30        |      |
| Surr: Trifluorotoluene     | 28.07  | 1.0 | 30      | 0             | 93.6 | 73-130        | 25.65         | 9    | 30        |      |

The following samples were analyzed in this batch: 1006499-48A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006499  
Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: R93159 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-062110-R93159 Units: mg/Kg Analysis Date: 6/21/2010 03:44 PM

Client ID: Run ID: FID-9\_100621A SeqNo: 2008100 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND     | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1071 | 0.0050 | 0.1     | 0             | 107  | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-062110-R93159 Units: mg/Kg Analysis Date: 6/21/2010 02:57 PM

Client ID: Run ID: FID-9\_100621A SeqNo: 2008097 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.197  | 0.050  | 1       | 0             | 120  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.112  | 0.0050 | 0.1     | 0             | 112  | 70-130        | 0             |      |           |      |

LCSD Sample ID: GLCSDS-062110-R93159 Units: mg/Kg Analysis Date: 6/21/2010 03:21 PM

Client ID: Run ID: FID-9\_100621A SeqNo: 2008099 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.133  | 0.050  | 1       | 0             | 113  | 70-130        | 1.197         | 5.49 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.1103 | 0.0050 | 0.1     | 0             | 110  | 70-130        | 0.112         | 1.58 | 30        |      |

MS Sample ID: 1006499-25BMS Units: mg/Kg Analysis Date: 6/22/2010 01:25 AM

Client ID: WSB-3 100' Run ID: FID-9\_100621A SeqNo: 2008126 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.172  | 0.050  | 1       | 0             | 117  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1101 | 0.0050 | 0.1     | 0             | 110  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1006499-25BMSD Units: mg/Kg Analysis Date: 6/22/2010 01:48 AM

Client ID: WSB-3 100' Run ID: FID-9\_100621A SeqNo: 2008127 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Gasoline Range Organics    | 1.18   | 0.050  | 1       | 0             | 118  | 70-130        | 1.172         | 0.689 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.1123 | 0.0050 | 0.1     | 0             | 112  | 70-130        | 0.1101        | 1.94  | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-08B | 1006499-09B | 1006499-10B |
| 1006499-11B | 1006499-12B | 1006499-13B |
| 1006499-14B | 1006499-15B | 1006499-16B |
| 1006499-17B | 1006499-18B | 1006499-19B |
| 1006499-20B | 1006499-21B | 1006499-22B |
| 1006499-23B | 1006499-24B | 1006499-25B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

# QC BATCH REPORT

Batch ID: R93162 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-062210-R93162 Units: mg/Kg Analysis Date: 6/22/2010 02:58 AM

Client ID: Run ID: FID-9\_100621B SeqNo: 2008159 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND     | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1103 | 0.0050 | 0.1     | 0             | 110  | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-062210-R93162 Units: mg/Kg Analysis Date: 6/22/2010 02:35 AM

Client ID: Run ID: FID-9\_100621B SeqNo: 2008158 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.147  | 0.050  | 1       | 0             | 115  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.115  | 0.0050 | 0.1     | 0             | 115  | 70-130        | 0             |      |           |      |

MS Sample ID: 1006499-34BMS Units: mg/Kg Analysis Date: 6/22/2010 05:42 AM

Client ID: WSB-6 40' Run ID: FID-9\_100621B SeqNo: 2008167 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.203  | 0.050  | 1       | 0             | 120  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1122 | 0.0050 | 0.1     | 0             | 112  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1006499-34BMSD Units: mg/Kg Analysis Date: 6/22/2010 06:05 AM

Client ID: WSB-6 40' Run ID: FID-9\_100621B SeqNo: 2008168 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Gasoline Range Organics    | 1.153  | 0.050  | 1       | 0             | 115  | 70-130        | 1.203         | 4.3   | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.1125 | 0.0050 | 0.1     | 0             | 112  | 70-130        | 0.1122        | 0.226 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-26B | 1006499-27B | 1006499-29B |
| 1006499-31B | 1006499-32B | 1006499-33B |
| 1006499-34B |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006499  
Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: R93163 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-062210-R93163 Units: mg/Kg Analysis Date: 6/22/2010 03:17 PM  
Client ID: Run ID: FID-9\_100622B SeqNo: 2008172 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND      | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.09376 | 0.0050 | 0.1     | 0             | 93.8 | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-062210-R93163 Units: mg/Kg Analysis Date: 6/22/2010 01:49 PM  
Client ID: Run ID: FID-9\_100622B SeqNo: 2008170 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 0.8946 | 0.050  | 1       | 0             | 89.5 | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.0986 | 0.0050 | 0.1     | 0             | 98.6 | 70-130        | 0             |      |           |      |

LCSD Sample ID: GLCSDS-062210-R93163 Units: mg/Kg Analysis Date: 6/22/2010 02:53 PM  
Client ID: Run ID: FID-9\_100622B SeqNo: 2008171 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 0.8709  | 0.050  | 1       | 0             | 87.1 | 70-130        | 0.8946        | 2.68 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.09533 | 0.0050 | 0.1     | 0             | 95.3 | 70-130        | 0.0986        | 3.38 | 30        |      |

MS Sample ID: 1006499-49ZMS Units: mg/Kg Analysis Date: 6/23/2010 03:52 AM  
Client ID: Run ID: FID-9\_100622B SeqNo: 2008185 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.009   | 0.050  | 1       | 0             | 101  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08334 | 0.0050 | 0.1     | 0             | 83.3 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1006499-49ZMSD Units: mg/Kg Analysis Date: 6/23/2010 04:15 AM  
Client ID: Run ID: FID-9\_100622B SeqNo: 2008186 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD   | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|--------|-----------|------|
| Gasoline Range Organics    | 1.028  | 0.050  | 1       | 0             | 103  | 70-130        | 1.009         | 1.9    | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.0834 | 0.0050 | 0.1     | 0             | 83.4 | 70-130        | 0.08334       | 0.0756 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-35B | 1006499-36B | 1006499-37B |
| 1006499-38B | 1006499-39B | 1006499-40B |
| 1006499-41B | 1006499-48B | 1006499-56B |
| 1006499-57B | 1006499-70B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

# QC BATCH REPORT

Batch ID: R93164 Instrument ID FID-9 Method: SW8015

|                            |                                |        |         |               |                |               |                                   |      |           |      |
|----------------------------|--------------------------------|--------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| MBLK                       | Sample ID: GBLKS-062310-R93164 |        |         |               | Units: mg/Kg   |               | Analysis Date: 6/23/2010 03:06 AM |      |           |      |
| Client ID:                 | Run ID: FID-9_100622C          |        |         |               | SeqNo: 2008205 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                         | PQL    | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | ND                             | 0.050  |         |               |                |               |                                   |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.07826                        | 0.0050 | 0.1     | 0             | 78.3           | 70-130        | 0                                 |      |           |      |

|                            |                                |                       |         |               |                |               |                                   |      |           |      |
|----------------------------|--------------------------------|-----------------------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| LCS                        | Sample ID: GLCSS-062310-R93164 |                       |         |               | Units: mg/Kg   |               | Analysis Date: 6/23/2010 02:19 AM |      |           |      |
| Client ID:                 |                                | Run ID: FID-9_100622C |         |               | SeqNo: 2008203 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                         | PQL                   | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | 0.9896                         | 0.050                 | 1       | 0             | 99             | 70-130        | 0                                 |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08296                        | 0.0050                | 0.1     | 0             | 83             | 70-130        | 0                                 |      |           |      |

|                            |                                 |        |         |               |                |               |               |                                   |           |      |
|----------------------------|---------------------------------|--------|---------|---------------|----------------|---------------|---------------|-----------------------------------|-----------|------|
| LCSD                       | Sample ID: GLCSDS-062310-R93164 |        |         |               |                | Units: mg/Kg  |               | Analysis Date: 6/23/2010 02:42 AM |           |      |
| Client ID:                 | Run ID: FID-9_100622C           |        |         |               | SeqNo: 2008204 |               | Prep Date:    |                                   | DF: 1     |      |
| Analyte                    | Result                          | PQL    | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value | %RPD                              | RPD Limit | Qual |
| Gasoline Range Organics    | 1.018                           | 0.050  | 1       | 0             | 102            | 70-130        | 0.9896        | 2.82                              | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.08253                         | 0.0050 | 0.1     | 0             | 82.5           | 70-130        | 0.08296       | 0.524                             | 30        |      |

|                            |                          |                       |         |               |                |               |                                   |      |           |      |
|----------------------------|--------------------------|-----------------------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| MS                         | Sample ID: 1006499-49BMS |                       |         |               | Units: mg/Kg   |               | Analysis Date: 6/23/2010 03:52 AM |      |           |      |
| Client ID: WSB-4 100'      |                          | Run ID: FID-9_100622C |         |               | SeqNo: 2008207 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                   | PQL                   | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | 1.009                    | 0.050                 | 1       | 0             | 101            | 70-130        | 0                                 |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08334                  | 0.0050                | 0.1     | 0             | 83.3           | 70-130        | 0                                 |      |           |      |

|                            |                           |        |                       |               |      |                |               |                                   |           |       |
|----------------------------|---------------------------|--------|-----------------------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| MSD                        | Sample ID: 1006499-49BMSD |        |                       |               |      | Units: mg/Kg   |               | Analysis Date: 6/23/2010 04:15 AM |           |       |
| Client ID: WSB-4 100'      |                           |        | Run ID: FID-9_100622C |               |      | SeqNo: 2008208 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result                    | PQL    | SPK Val               | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Gasoline Range Organics    | 1.028                     | 0.050  | 1                     | 0             | 103  | 70-130         | 1.009         | 1.9                               | 30        |       |
| Surr: 4-Bromofluorobenzene | 0.0834                    | 0.0050 | 0.1                   | 0             | 83.4 | 70-130         | 0.08334       | 0.0756                            | 30        |       |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-49B | 1006499-50B | 1006499-54B |
| 1006499-55B | 1006499-58B | 1006499-59B |
| 1006499-60B | 1006499-61B | 1006499-62B |
| 1006499-63B | 1006499-64B | 1006499-65B |
| 1006499-66B | 1006499-67B | 1006499-68B |
| 1006499-69B |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006499  
Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: R93165 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GMEOHW-062310-R93165 Units: mg/Kg Analysis Date: 6/23/2010 02:40 PM  
Client ID: Run ID: FID-9\_100623B SeqNo: 2008241 Prep Date: DF: 500

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND     | 25  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 44.65  | 2.5 | 50      | 0             | 89.3 | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSW-062310-R93165 Units: mg/Kg Analysis Date: 6/23/2010 01:29 PM  
Client ID: Run ID: FID-9\_100623B SeqNo: 2008238 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 0.9599  | 0.050  | 1       | 0             | 96   | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.09108 | 0.0050 | 0.1     | 0             | 91.1 | 70-130        | 0             |      |           |      |

LCSD Sample ID: GLCSDW-062310-R93165 Units: mg/Kg Analysis Date: 6/23/2010 01:53 PM  
Client ID: Run ID: FID-9\_100623B SeqNo: 2008239 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Gasoline Range Organics    | 0.9168 | 0.050  | 1       | 0             | 91.7 | 70-130        | 0.9599        | 4.59  | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.0914 | 0.0050 | 0.1     | 0             | 91.4 | 70-130        | 0.09108       | 0.349 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-14B | 1006499-15B | 1006499-28B |
| 1006499-29B | 1006499-30B | 1006499-42B |
| 1006499-43B | 1006499-44B | 1006499-45B |
| 1006499-46B | 1006499-47B | 1006499-48B |
| 1006499-51B | 1006499-52B | 1006499-53B |
| 1006499-57B |             |             |

Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

# QC BATCH REPORT

Batch ID: 44095 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS3-062810-44095 Units: mg/Kg Analysis Date: 6/29/2010 09:42 AM  
 Client ID: Run ID: ICS2100\_100629C SeqNo: 2012568 Prep Date: 6/28/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Surr: Selenate (surr) | 47.18  | 1.0 | 50      | 0             | 94.4 | 85-115        | 0             |      |           |      |

LCS Sample ID: WLCSS3-062810-44095 Units: mg/Kg Analysis Date: 6/29/2010 09:56 AM  
 Client ID: Run ID: ICS2100\_100629C SeqNo: 2012569 Prep Date: 6/28/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 205.6  | 5.0 | 200     | 0             | 103  | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 51.76  | 1.0 | 50      | 0             | 104  | 85-115        | 0             |      |           |      |

LCSD Sample ID: WLCSDS3-062810-44095 Units: mg/Kg Analysis Date: 6/29/2010 10:11 AM  
 Client ID: Run ID: ICS2100\_100629C SeqNo: 2012570 Prep Date: 6/28/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 192.8  | 5.0 | 200     | 0             | 96.4 | 90-110        | 205.6         | 6.43 | 20        |      |
| Surr: Selenate (surr) | 48.34  | 1.0 | 50      | 0             | 96.7 | 85-115        | 51.76         | 6.83 | 20        |      |

MS Sample ID: 1006499-01BMS Units: mg/Kg Analysis Date: 6/29/2010 10:40 AM  
 Client ID: WSB-1 10' Run ID: ICS2100\_100629C SeqNo: 2012572 Prep Date: 6/28/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 136.1  | 5.0  | 99.4    | 34.34         | 102  | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 51.93  | 0.99 | 49.7    | 0             | 104  | 80-120        | 0             |      |           |      |

MS Sample ID: 1006499-20BMS Units: mg/Kg Analysis Date: 6/29/2010 08:15 PM  
 Client ID: WSB-3 50' Run ID: ICS2100\_100629C SeqNo: 2012609 Prep Date: 6/28/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 106    | 5.0  | 99.4    | 6.571         | 100  | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 46.18  | 0.99 | 49.7    | 0             | 92.9 | 80-120        | 0             |      |           |      |

MSD Sample ID: 1006499-01BMSD Units: mg/Kg Analysis Date: 6/29/2010 10:54 AM  
 Client ID: WSB-1 10' Run ID: ICS2100\_100629C SeqNo: 2012573 Prep Date: 6/28/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 132.5  | 5.0  | 99.4    | 34.34         | 98.8 | 75-125        | 136.1         | 2.69 | 20        |      |
| Surr: Selenate (surr) | 51.13  | 0.99 | 49.7    | 0             | 103  | 80-120        | 51.93         | 1.54 | 20        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1006499  
**Project:** Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: 44095

Instrument ID ICS2100

Method: E300

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-01b | 1006499-02B | 1006499-03B |
| 1006499-04B | 1006499-05B | 1006499-06B |
| 1006499-07B | 1006499-08B | 1006499-09B |
| 1006499-10B | 1006499-11B | 1006499-12B |
| 1006499-13B | 1006499-14B | 1006499-15B |
| 1006499-16B | 1006499-17B | 1006499-18B |
| 1006499-19B | 1006499-20b |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: 44164 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS1-062810-44164 Units: mg/Kg Analysis Date: 6/30/2010 12:23 AM  
 Client ID: Run ID: ICS2100\_100629E SeqNo: 2013477 Prep Date: 6/28/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Surr: Selenate (surr) | 48.78  | 1.0 | 50      | 0             | 97.6 | 85-115        | 0             |      |           |      |

LCS Sample ID: WLCSS1-062810-44164 Units: mg/Kg Analysis Date: 6/30/2010 12:38 AM  
 Client ID: Run ID: ICS2100\_100629E SeqNo: 2013478 Prep Date: 6/28/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 202.5  | 5.0 | 200     | 0             | 101  | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 50.58  | 1.0 | 50      | 0             | 101  | 85-115        | 0             |      |           |      |

LCSD Sample ID: WLCSDS1-062810-44164 Units: mg/Kg Analysis Date: 6/30/2010 03:33 PM  
 Client ID: Run ID: ICS2100\_100629E SeqNo: 2013525 Prep Date: 6/28/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 197.4  | 5.0 | 200     | 0             | 98.7 | 90-110        | 202.5         | 2.56 | 20        |      |
| Surr: Selenate (surr) | 48.91  | 1.0 | 50      | 0             | 97.8 | 85-115        | 50.58         | 3.36 | 20        |      |

MS Sample ID: 1006499-21BMS Units: mg/Kg Analysis Date: 6/30/2010 01:21 AM  
 Client ID: WSB-3 60' Run ID: ICS2100\_100629E SeqNo: 2013479 Prep Date: 6/28/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 109.1  | 5.0 | 100     | 10.91         | 98.2 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 50.73  | 1.0 | 50      | 0             | 101  | 80-120        | 0             |      |           |      |

MS Sample ID: 1006499-40BMS Units: mg/Kg Analysis Date: 6/30/2010 07:25 AM  
 Client ID: WSB-6 100' Run ID: ICS2100\_100629E SeqNo: 2013510 Prep Date: 6/28/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 144.8  | 5.0  | 99.21   | 35.71         | 110  | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 54.19  | 0.99 | 49.6    | 0             | 109  | 80-120        | 0             |      |           |      |

MSD Sample ID: 1006499-21BMSD Units: mg/Kg Analysis Date: 6/30/2010 01:36 AM  
 Client ID: WSB-3 60' Run ID: ICS2100\_100629E SeqNo: 2013480 Prep Date: 6/28/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Chloride              | 107.4  | 5.0 | 100     | 10.91         | 96.4 | 75-125        | 109.1         | 1.58  | 20        |      |
| Surr: Selenate (surr) | 50.96  | 1.0 | 50      | 0             | 102  | 80-120        | 50.73         | 0.452 | 20        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006499  
Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: 44164 Instrument ID ICS2100 Method: E300

MSD Sample ID: 1006499-40BMSD Units: mg/Kg Analysis Date: 6/30/2010 07:40 AM  
Client ID: WSB-6 100' Run ID: ICS2100\_100629E SeqNo: 2013511 Prep Date: 6/28/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 136.8  | 5.0  | 99.21   | 35.71         | 102  | 75-125        | 144.8         | 5.69 | 20        |      |
| Surr: Selenate (surr) | 51.69  | 0.99 | 49.6    | 0             | 104  | 80-120        | 54.19         | 4.72 | 20        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-21B | 1006499-22B | 1006499-23B |
| 1006499-24B | 1006499-25B | 1006499-26B |
| 1006499-27B | 1006499-28B | 1006499-29B |
| 1006499-30B | 1006499-31B | 1006499-32B |
| 1006499-33B | 1006499-34B | 1006499-35B |
| 1006499-36B | 1006499-37B | 1006499-38B |
| 1006499-39B | 1006499-40B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

# QC BATCH REPORT

Batch ID: 44170 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS3-063010-44170 Units: mg/Kg Analysis Date: 7/1/2010 07:05 PM  
 Client ID: Run ID: ICS2100\_100701A SeqNo: 2016533 Prep Date: 6/30/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Surr: Selenate (surr) | 42.94  | 1.0 | 50      | 0             | 85.9 | 85-115        | 0             |      |           |      |

LCS Sample ID: WBLKS3-063010-44170 Units: mg/Kg Analysis Date: 7/1/2010 07:20 PM  
 Client ID: Run ID: ICS2100\_100701A SeqNo: 2016534 Prep Date: 6/30/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 197.7  | 5.0 | 200     | 0             | 98.8 | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 47.51  | 1.0 | 50      | 0             | 95   | 85-115        | 0             |      |           |      |

LCSD Sample ID: WLCSDS3-063010-44170 Units: mg/Kg Analysis Date: 7/1/2010 08:24 PM  
 Client ID: Run ID: ICS2100\_100701A SeqNo: 2016535 Prep Date: 6/30/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 182.6  | 5.0 | 200     | 0             | 91.3 | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 43.88  | 1.0 | 50      | 0             | 87.8 | 85-115        | 0             |      |           |      |

MS Sample ID: 1006499-41BMS Units: mg/Kg Analysis Date: 7/1/2010 08:54 PM  
 Client ID: WSB-6 110' Run ID: ICS2100\_100701A SeqNo: 2016537 Prep Date: 6/30/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 125.3  | 5.0 | 100     | 26.65         | 98.6 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 46.45  | 1.0 | 50      | 0             | 92.9 | 80-120        | 0             |      |           |      |

MS Sample ID: 1006499-60BMS Units: mg/Kg Analysis Date: 7/2/2010 02:57 AM  
 Client ID: WSB-7 10' Run ID: ICS2100\_100701A SeqNo: 2016570 Prep Date: 6/30/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 107.4  | 5.0 | 99.6    | 12.52         | 95.2 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 44.87  | 1.0 | 49.8    | 0             | 90.1 | 80-120        | 0             |      |           |      |

MSD Sample ID: 1006499-41BMSD Units: mg/Kg Analysis Date: 7/1/2010 09:08 PM  
 Client ID: WSB-6 110' Run ID: ICS2100\_100701A SeqNo: 2016538 Prep Date: 6/30/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 119.8  | 5.0 | 100     | 26.65         | 93.2 | 75-125        | 125.3         | 4.45 | 20        |      |
| Surr: Selenate (surr) | 44.54  | 1.0 | 50      | 0             | 89.1 | 80-120        | 46.45         | 4.2  | 20        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006499  
Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: 44170 Instrument ID ICS2100 Method: E300

MSD Sample ID: 1006499-60BMSD Units: mg/Kg Analysis Date: 7/2/2010 03:12 AM  
Client ID: WSB-7 10' Run ID: ICS2100\_100701A SeqNo: 2016571 Prep Date: 6/30/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 103.6  | 5.0 | 99.6    | 12.52         | 91.5 | 75-125        | 107.4         | 3.55 | 20        |      |
| Surr: Selenate (surr) | 42.91  | 1.0 | 49.8    | 0             | 86.2 | 80-120        | 44.87         | 4.47 | 20        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-41B | 1006499-42B | 1006499-43B |
| 1006499-44B | 1006499-45B | 1006499-46B |
| 1006499-47B | 1006499-48B | 1006499-49B |
| 1006499-50B | 1006499-51B | 1006499-52B |
| 1006499-53B | 1006499-54B | 1006499-55B |
| 1006499-56B | 1006499-57B | 1006499-58B |
| 1006499-59B | 1006499-60B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006499  
 Project: Lea Refinery Soil Borings

# QC BATCH REPORT

Batch ID: 44178 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS3-070110-44178 Units: mg/Kg Analysis Date: 7/2/2010 06:44 AM

Client ID: Run ID: ICS2100\_100701B SeqNo: 2016635 Prep Date: 7/1/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Surr: Selenate (surr) | 45.8   | 1.0 | 50      | 0             | 91.6 | 85-115        | 0             |      |           |      |

LCS Sample ID: WLCSS3-070110-44178 Units: mg/Kg Analysis Date: 7/2/2010 06:58 AM

Client ID: Run ID: ICS2100\_100701B SeqNo: 2016636 Prep Date: 7/1/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 204    | 5.0 | 200     | 0             | 102  | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 49.03  | 1.0 | 50      | 0             | 98.1 | 85-115        | 0             |      |           |      |

LCSD Sample ID: WLCSDS3-070110-44178 Units: mg/Kg Analysis Date: 7/2/2010 07:13 AM

Client ID: Run ID: ICS2100\_100701B SeqNo: 2016637 Prep Date: 7/1/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Chloride              | 203.7  | 5.0 | 200     | 0             | 102  | 90-110        | 204           | 0.123 | 20        |      |
| Surr: Selenate (surr) | 49.03  | 1.0 | 50      | 0             | 98.1 | 85-115        | 49.03         | 0     | 20        |      |

MS Sample ID: 1006499-61BMS Units: mg/Kg Analysis Date: 7/2/2010 07:56 AM

Client ID: WSB-7 20' Run ID: ICS2100\_100701B SeqNo: 2016640 Prep Date: 7/1/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 131    | 5.0  | 99.21   | 20.3          | 112  | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 52.17  | 0.99 | 49.6    | 0             | 105  | 80-120        | 0             |      |           |      |

MSD Sample ID: 1006499-61BMSD Units: mg/Kg Analysis Date: 7/2/2010 08:11 AM

Client ID: WSB-7 20' Run ID: ICS2100\_100701B SeqNo: 2016641 Prep Date: 7/1/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 111.6  | 5.0  | 99.21   | 20.3          | 92   | 75-125        | 131           | 16   | 20        |      |
| Surr: Selenate (surr) | 44.26  | 0.99 | 49.6    | 0             | 89.2 | 80-120        | 52.17         | 16.4 | 20        |      |

DUP Sample ID: 1006499-61BDUP Units: mg/Kg Analysis Date: 7/2/2010 07:42 AM

Client ID: WSB-7 20' Run ID: ICS2100\_100701B SeqNo: 2016639 Prep Date: 7/1/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 41.26  | 10  | 0       | 0             | 0    | 0-0           | 20.3          | 68.1 | 20        | R    |
| Surr: Selenate (surr) | 85.38  | 2.0 | 100     | 0             | 85.4 | 85-115        | 42.04         | 68   | 20        | R    |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006499  
Project: Lea Refinery Soil Borings

## QC BATCH REPORT

Batch ID: 44178

Instrument ID ICS2100

Method: E300

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006499-61B | 1006499-62B | 1006499-63B |
| 1006499-64B | 1006499-65B | 1006499-66B |
| 1006499-67B | 1006499-68B | 1006499-69B |
| 1006499-70B |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

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Date: 06-Jul-10

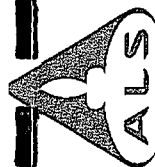
**Client:** Navajo Refining Company  
**Project:** Lea Refinery Soil Borings  
**WorkOrder:** 1006499

## QUALIFIERS, ACRONYMS, UNITS

| <u>Qualifier</u> | <u>Description</u>                                                        |
|------------------|---------------------------------------------------------------------------|
| *                | Value exceeds Regulatory Limit                                            |
| a                | Not accredited                                                            |
| B                | Analyte detected in the associated Method Blank above the Reporting Limit |
| E                | Value above quantitation range                                            |
| H                | Analyzed outside of Holding Time                                          |
| J                | Analyte detected below quantitation limit                                 |
| M                | Manually integrated, see raw data for justification                       |
| n                | Not offered for accreditation                                             |
| ND               | Not Detected at the Reporting Limit                                       |
| O                | Sample amount is > 4 times amount spiked                                  |
| P                | Dual Column results percent difference > 40%                              |
| R                | RPD above laboratory control limit                                        |
| S                | Spike Recovery outside laboratory control limits                          |
| U                | Analyzed but not detected above the MDL                                   |

| <u>Acronym</u> | <u>Description</u>                  |
|----------------|-------------------------------------|
| DUP            | Method Duplicate                    |
| LCS            | Laboratory Control Sample           |
| LCSD           | Laboratory Control Sample Duplicate |
| MBLK           | Method Blank                        |
| MDL            | Method Detection Limit              |
| MQL            | Method Quantitation Limit           |
| MS             | Matrix Spike                        |
| MSD            | Matrix Spike Duplicate              |
| PDS            | Post Digestion Spike                |
| PQL            | Practical Quantitation Limit        |
| SD             | Serial Dilution                     |
| SDL            | Sample Detection Limit              |
| TRRP           | Texas Risk Reduction Program        |

| <u>Units Reported</u> | <u>Description</u>      |
|-----------------------|-------------------------|
| mg/Kg                 | Milligrams per Kilogram |
| mg/L                  | Milligrams per Liter    |



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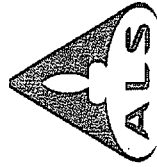
**Chain of Custody Form**

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Page 1 of 3

| Customer Information                                                                                                                                                                               |                    |        |      | Project Information                     |       |           |   | ALS Work Order #: <u>106499</u>                       |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------|------|-----------------------------------------|-------|-----------|---|-------------------------------------------------------|---|---|---|----------------------------------------------------|---|---|---|----------------------------------------------------------|------|--|--|
| Project Name                                                                                                                                                                                       |                    |        |      | Lea Refinery <u>Wells 50, 1 Barrels</u> |       |           |   | Parameter/Method Request for Analysis                 |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| Project Number                                                                                                                                                                                     |                    |        |      | NAV-10-555 002                          |       |           |   | A BTEX (8021)                                         |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| Bill To Company                                                                                                                                                                                    |                    |        |      | Navajo Refining Company                 |       |           |   | B GRO (8015M)                                         |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| Invoice Attn                                                                                                                                                                                       |                    |        |      | Darrell Moore                           |       |           |   | C DRO (8015M)                                         |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| Address                                                                                                                                                                                            |                    |        |      | P.O. Box 159                            |       |           |   | D ORO (8015M)                                         |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| City/State/Zip                                                                                                                                                                                     |                    |        |      | Artesia, NM 80211                       |       |           |   | E Anions (300) CI                                     |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| Phone                                                                                                                                                                                              |                    |        |      | (505) 748-3311                          |       |           |   | F                                                     |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| Fax                                                                                                                                                                                                |                    |        |      | (505) 746-5421                          |       |           |   | G                                                     |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| e-Mail Address                                                                                                                                                                                     |                    |        |      | dgboyer@SESI-NM.com                     |       |           |   | H                                                     |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| No.                                                                                                                                                                                                | Sample Description | Date   | Time | Matrix                                  | Pres. | # Bottles | A | B                                                     | C | D | E | F                                                  | G | H | I | J                                                        | Hold |  |  |
| 1                                                                                                                                                                                                  | WSB-1 10'          | 6/8/10 | 1052 | 50:1                                    | 8     | 2         | X | X                                                     | X | X | X |                                                    |   |   |   |                                                          |      |  |  |
| 2                                                                                                                                                                                                  | 20'                |        | 1100 |                                         |       |           |   |                                                       |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| 3                                                                                                                                                                                                  | 30'                |        | 1110 |                                         |       |           |   |                                                       |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| 4                                                                                                                                                                                                  | 40'                |        | 1120 |                                         |       |           |   |                                                       |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| 5                                                                                                                                                                                                  | 50'                |        | 1135 |                                         |       |           |   |                                                       |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| 6                                                                                                                                                                                                  | 60'                |        | 1135 |                                         |       |           |   |                                                       |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| 7                                                                                                                                                                                                  | 70'                |        | 1145 |                                         |       |           |   |                                                       |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| 8                                                                                                                                                                                                  | 80'                |        | 1245 |                                         |       |           |   |                                                       |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| 9                                                                                                                                                                                                  | 90'                |        | 1255 |                                         |       |           |   |                                                       |   |   |   |                                                    |   |   |   |                                                          |      |  |  |
| 10                                                                                                                                                                                                 | WSB-1 100'         | 6/8/10 | 1305 | 50:1                                    | 8     | 2         | X | X                                                     | X | X | X |                                                    |   |   |   |                                                          |      |  |  |
| Sampler(s) Release Print & Sign <u>DG Boyer</u>                                                                                                                                                    |                    |        |      | Shipment Method <u>FedEx</u>            |       |           |   | Required Turnaround Time (Check Box) <u>2 Wk Days</u> |   |   |   | Results Due Date: <u>6/24/10</u>                   |   |   |   |                                                          |      |  |  |
| Relinquished By: <u>DG Boyer</u>                                                                                                                                                                   |                    |        |      | Received by: <u>DSF</u>                 |       |           |   | Cooler ID: <u>6510</u>                                |   |   |   | Cooler Temp: <u>140</u>                            |   |   |   | QC Package: (Check One Box Below) <u>Level II Sid QC</u> |      |  |  |
| Relinquished By: <u>DG Boyer</u>                                                                                                                                                                   |                    |        |      | Received by: <u>DSF</u>                 |       |           |   | Checked by (Laboratory):                              |   |   |   | Level III Sid QC/RAW Data <input type="checkbox"/> |   |   |   | Level IV SW936/CLP <input type="checkbox"/>              |      |  |  |
| Logged by (Laboratory):                                                                                                                                                                            |                    |        |      | Time: <u>1230</u>                       |       |           |   | Time: <u>1230</u>                                     |   |   |   | Time: <u>1230</u>                                  |   |   |   | Time: <u>1230</u>                                        |      |  |  |
| Preservative Key: 1-HClO <sub>4</sub> 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 6-NaHSO <sub>4</sub> 7-Other: <u>8-4°C</u> 9-5035 |                    |        |      |                                         |       |           |   |                                                       |   |   |   |                                                    |   |   |   |                                                          |      |  |  |





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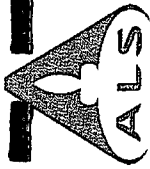
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Page 2 of 2

| Customer Information                   |                    |        |      | Project Information                    |       |           |   | ALS Project Manager: <u>ALS Work Order #:</u> <u>00499</u> Parameter/Method Request for Analysis |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------------|--------------------|--------|------|----------------------------------------|-------|-----------|---|--------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Purchase Order                         |                    |        |      | Project Name                           |       |           |   | BTEX (8021)                                                                                      |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| Work Order                             |                    |        |      | Project Number                         |       |           |   | GRO (8015M)                                                                                      |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| Company Name                           |                    |        |      | Bill To Company                        |       |           |   | DRO (8015M)                                                                                      |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| Send Report To                         |                    |        |      | Invoice Attn                           |       |           |   | ORO (8015M)                                                                                      |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| Address                                |                    |        |      | P.O. Box 159                           |       |           |   | Artians (300) CI                                                                                 |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| City/State/Zip                         |                    |        |      | Artesia, NM 88211                      |       |           |   |                                                                                                  |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| Phone                                  |                    |        |      | (505) 748-3311                         |       |           |   |                                                                                                  |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| Fax                                    |                    |        |      | (505) 746-5421                         |       |           |   |                                                                                                  |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| e-Mail Address                         |                    |        |      | dgbayer@SES-NM.com                     |       |           |   |                                                                                                  |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| No.                                    | Sample Description | Date   | Time | Matrix                                 | Pres. | # Bottles | A | B                                                                                                | C | D | E | F | G | H | I | J | K | L | M | N                                                                                                                                                             | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| 1                                      | WSB-1 110'         | 6/8/10 | 1315 | 50:1                                   | 8     | 2         | X | X                                                                                                | X | X | X |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 2                                      | WSB-2 10'          | 6/9/10 | 0715 |                                        |       |           |   |                                                                                                  |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 3                                      | 20'                |        | 0725 |                                        |       |           |   |                                                                                                  |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 4                                      | 30'                |        | 0820 |                                        |       |           |   |                                                                                                  |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 5                                      | WSB-2 40'          | 6/9/10 | 0830 |                                        |       |           |   |                                                                                                  |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 6                                      | WSB-3 10'          |        | 0920 |                                        |       |           |   |                                                                                                  |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 7                                      | 20'                |        | 0930 |                                        |       |           |   |                                                                                                  |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 8                                      | 30'                |        | 0940 |                                        |       |           |   |                                                                                                  |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 9                                      | 40'                |        | 0950 |                                        |       |           |   |                                                                                                  |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 10                                     | WSB-3 50'          | 6/9/10 | 1000 | 50:1                                   | 8     | 2         | X | X                                                                                                | X | X | X |   |   |   |   |   |   |   |   |                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |
| Sampler(s) Please Print & Sign         |                    |        |      | Shipment Method                        |       |           |   | Required Turnaround Time (Check Box)                                                             |   |   |   |   |   |   |   |   |   |   |   | Results Due Date:                                                                                                                                             |   |   |   |   |   |   |   |   |   |   |   |   |
| Date: <u>6/14/10</u> Time: <u>1630</u> |                    |        |      | Date: <u>6/14/10</u> Time: <u>1630</u> |       |           |   | Other: <u>10 Day TAT, CC Dave Boyer</u>                                                          |   |   |   |   |   |   |   |   |   |   |   | Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SW916/CLP <input type="checkbox"/> Other <input type="checkbox"/> |   |   |   |   |   |   |   |   |   |   |   |   |
| Relinquished by: <u>ALS Boyer</u>      |                    |        |      | Relinquished by: <u>ALS Boyer</u>      |       |           |   | Cooler ID: <u>1510140</u>                                                                        |   |   |   |   |   |   |   |   |   |   |   | Cooler Temp: <u>140</u>                                                                                                                                       |   |   |   |   |   |   |   |   |   |   |   |   |
| Logged by (Laboratory):                |                    |        |      | Checked by (Laboratory):               |       |           |   | Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO3 7-Other: 8-4°C 9-5035           |   |   |   |   |   |   |   |   |   |   |   | TRRP Check (if TRRP Level IV)                                                                                                                                 |   |   |   |   |   |   |   |   |   |   |   |   |

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.  
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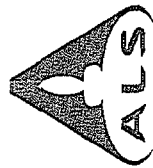
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Page 3 of 8

| Customer Information                                                                        |                    |        |      | Project Information      |       |           |   | ALS Project Manager: [Signature]      |   |   |   |                           |   |   |   |                                       |   |   |   | ALS Work Order #: 1008499 |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------------------------------------------------------------|--------------------|--------|------|--------------------------|-------|-----------|---|---------------------------------------|---|---|---|---------------------------|---|---|---|---------------------------------------|---|---|---|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Purchase Order                                                                              |                    |        |      | Project Name             |       |           |   | Lea Refining                          |   |   |   | BTEX (8021)               |   |   |   | Parameter/Method Request for Analysis |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| Company Name                                                                                |                    |        |      | Project Number           |       |           |   | NAV-10-002                            |   |   |   | GRO (8015M)               |   |   |   | GRO (8015M)                           |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| Send Report To                                                                              |                    |        |      | Bill To Company          |       |           |   | Navajo Refining Company               |   |   |   | DRO (8015M)               |   |   |   | DRO (8015M)                           |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| Address                                                                                     |                    |        |      | Invoice Attn             |       |           |   | Darrell Moore                         |   |   |   | QRO (8015M)               |   |   |   | Anignts (300) CI                      |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| City/State/Zip                                                                              |                    |        |      | City/State/Zip           |       |           |   | Artesia, NM 88211                     |   |   |   |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| Phone                                                                                       |                    |        |      | Phone                    |       |           |   | (505) 748-3311                        |   |   |   |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| Fax                                                                                         |                    |        |      | Fax                      |       |           |   | (505) 746-5421                        |   |   |   |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| e-Mail Address                                                                              |                    |        |      | e-Mail Address           |       |           |   | dgboyer@SES-LNM.com                   |   |   |   |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| No.                                                                                         | Sample Description | Date   | Time | Matrix                   | Pres. | # Bottles | A | B                                     | C | D | E | F                         | G | H | I | J                                     | K | L | M | N                         | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| 1                                                                                           | WSB-3 60'          | 6/9/10 | 1010 | Soil                     | 8     | 2         | X | X                                     | X | X | X |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| 2                                                                                           | 70'                |        | 1020 |                          |       |           |   |                                       |   |   |   |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| 3                                                                                           | 80'                |        | 1040 |                          |       |           |   |                                       |   |   |   |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| 4                                                                                           | 90'                |        | 1050 |                          |       |           |   |                                       |   |   |   |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| 5                                                                                           | 100'               |        | 1105 |                          |       |           |   |                                       |   |   |   |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| 6                                                                                           | 110'               |        | 1115 |                          |       |           |   |                                       |   |   |   |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| 7                                                                                           | WSB-4 10'          | 6/9/10 | 1330 |                          |       |           |   |                                       |   |   |   |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| 8                                                                                           | 20'                | 6/9/10 | 1340 |                          |       |           |   |                                       |   |   |   |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| 9                                                                                           | WSB-5 10'          | 6/9/10 | 1430 |                          |       |           |   |                                       |   |   |   |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| 10                                                                                          | 20'                | 6/9/10 | 1440 | Soil                     | 8     | 2         | X | X                                     | X | X | X |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| Sampler(s) Please Print & Sign                                                              |                    |        |      | Shipment Method          |       |           |   | Required Turnaround Time: (Check Box) |   |   |   | Results Due/Date:         |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| [Signature]                                                                                 |                    |        |      | Fed Ex                   |       |           |   | 10 Day TAT, Co Days Boyer             |   |   |   | Level II Std QC           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| Relinquished by:                                                                            |                    |        |      | Date: 6/14/10 Time: 1630 |       |           |   | Received by (Laboratory):             |   |   |   | Level III Std QC/Row Data |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| [Signature]                                                                                 |                    |        |      |                          |       |           |   | [Signature]                           |   |   |   | Level IV SWB46/CLP        |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| Relinquished by:                                                                            |                    |        |      | Date:                    |       |           |   | Received by (Laboratory):             |   |   |   | Other                     |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| [Signature]                                                                                 |                    |        |      |                          |       |           |   | [Signature]                           |   |   |   |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| Logged by (Laboratory):                                                                     |                    |        |      | Date:                    |       |           |   | Checked by (Laboratory):              |   |   |   | TRRP Check List           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| [Signature]                                                                                 |                    |        |      |                          |       |           |   | [Signature]                           |   |   |   | TRRP Level IV             |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |
| Preservative Key: 1-HCl, 2-HNO3, 3-H2SO4, 4-NaOH, 5-Na2SO3, 6-NaHSO4, 7-Other 8-4°C, 9-5035 |                    |        |      |                          |       |           |   |                                       |   |   |   |                           |   |   |   |                                       |   |   |   |                           |   |   |   |   |   |   |   |   |   |   |   |   |

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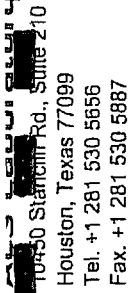
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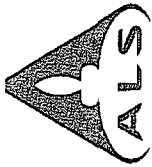
| Customer Information                  |  |  |  | Project Information                                                                                                                                                    |  |  |  | ALS Project Manager: <u>06499</u>           |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
|---------------------------------------|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------|--|--|--|--------------------------|--|--|--|-----------------------------------|--|--|--|---------------------|--|--|--|-----------------------------------|--|--|--|------------------|--|--|--|
| Parameter/Method Request for Analysis |  |  |  | Parameter/Method Request for Analysis                                                                                                                                  |  |  |  | Parameter/Method Request for Analysis       |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| Purchase Order                        |  |  |  | Project Name                                                                                                                                                           |  |  |  | Lea Refinery <u>New Works Soil Beringer</u> |  |  |  | BTEX (8021)              |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| Work Order                            |  |  |  | Project Number                                                                                                                                                         |  |  |  | NAV-10- <del>555</del> <u>002</u>           |  |  |  | GRO (8015M)              |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| Company Name                          |  |  |  | Bill To Company                                                                                                                                                        |  |  |  | Navajo Refining Company                     |  |  |  | DRO (8015M)              |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| Send Report To                        |  |  |  | Invoice Attn                                                                                                                                                           |  |  |  | Darrell Moore                               |  |  |  | ORO (8015M)              |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| Address                               |  |  |  | P.O. Box 159                                                                                                                                                           |  |  |  | P.O. Box 159                                |  |  |  | Antlers (300) CI         |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| City/State/Zip                        |  |  |  | Antesia, NM 88211                                                                                                                                                      |  |  |  | Antesia, NM 88211                           |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| Phone                                 |  |  |  | (505) 748-3311                                                                                                                                                         |  |  |  | (505) 748-3311                              |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| Fax                                   |  |  |  | (505) 748-5421                                                                                                                                                         |  |  |  | (505) 748-5421                              |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| e-Mail Address                        |  |  |  | dcmoyer@SES-NM.com                                                                                                                                                     |  |  |  |                                             |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| Sample Description                    |  |  |  | Date                                                                                                                                                                   |  |  |  | Time                                        |  |  |  | Matrix                   |  |  |  | Pres. # Bottles                   |  |  |  | A B C D E F G H I J |  |  |  |                                   |  |  |  |                  |  |  |  |
| 1 W5B-6 10'                           |  |  |  | 6/10/10                                                                                                                                                                |  |  |  | 0700                                        |  |  |  | Soil                     |  |  |  | 8 2                               |  |  |  | X X X X             |  |  |  |                                   |  |  |  |                  |  |  |  |
| 2 20'                                 |  |  |  |                                                                                                                                                                        |  |  |  | 0710                                        |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| 3 30'                                 |  |  |  |                                                                                                                                                                        |  |  |  | 0720                                        |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| 4 40'                                 |  |  |  |                                                                                                                                                                        |  |  |  | 0730                                        |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| 5 50'                                 |  |  |  |                                                                                                                                                                        |  |  |  | 0750                                        |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| 6 60'                                 |  |  |  |                                                                                                                                                                        |  |  |  | 0800                                        |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| 7 70'                                 |  |  |  |                                                                                                                                                                        |  |  |  | 0825                                        |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| 8 80'                                 |  |  |  |                                                                                                                                                                        |  |  |  | 0835                                        |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| 9 90'                                 |  |  |  |                                                                                                                                                                        |  |  |  | 0845                                        |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| 10 W5B-6 100'                         |  |  |  | 6/10/10                                                                                                                                                                |  |  |  | 0855                                        |  |  |  | Soil                     |  |  |  | 8 2                               |  |  |  | X X X X             |  |  |  |                                   |  |  |  |                  |  |  |  |
| Sampler(s) Please Print & Sign        |  |  |  | Shipment Method                                                                                                                                                        |  |  |  | Required Turnaround Time: (Check Box)       |  |  |  | Cooler Temp.             |  |  |  | QC Package: (Check One Box Below) |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |
| AL Boring                             |  |  |  | Box                                                                                                                                                                    |  |  |  | Fed Ex                                      |  |  |  | 5 M/C Days               |  |  |  | Level II Std QC                   |  |  |  | Level III Std QC    |  |  |  | Level IV SWD/CLP                  |  |  |  |                  |  |  |  |
| Relinquished by:                      |  |  |  | Date                                                                                                                                                                   |  |  |  | Time                                        |  |  |  | Received by:             |  |  |  | Cooler ID                         |  |  |  | Cooler Temp.        |  |  |  | QC Package: (Check One Box Below) |  |  |  |                  |  |  |  |
| AL Boring                             |  |  |  | 6/14/10                                                                                                                                                                |  |  |  | 1630                                        |  |  |  | AL Boring                |  |  |  | 140                               |  |  |  | Level II Std QC     |  |  |  | Level III Std QC                  |  |  |  | Level IV SWD/CLP |  |  |  |
| Logged by (Laboratory):               |  |  |  | Date                                                                                                                                                                   |  |  |  | Time                                        |  |  |  | Checked by (Laboratory): |  |  |  | Date                              |  |  |  | Time                |  |  |  | QC Package: (Check One Box Below) |  |  |  |                  |  |  |  |
| AL Boring                             |  |  |  | 6/14/10                                                                                                                                                                |  |  |  | 1630                                        |  |  |  | AL Boring                |  |  |  | 140                               |  |  |  | Level II Std QC     |  |  |  | Level III Std QC                  |  |  |  | Level IV SWD/CLP |  |  |  |
| Preservative Key:                     |  |  |  | 1-HCl, 2-HNO <sub>3</sub> , 3-H <sub>2</sub> SO <sub>4</sub> , 4-NaOH, 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 6-NaHSO <sub>3</sub> , 7-Other: 8-4°C, 9-5035 |  |  |  |                                             |  |  |  |                          |  |  |  |                                   |  |  |  |                     |  |  |  |                                   |  |  |  |                  |  |  |  |



| Customer Information                                                                                                                                                      |            |                         |                | Project Information             |                |                         |               | ALS Project Manager: <b>ALS Work Order #:</b> 100499                                                                                                                                                                             |                |                         |               |                                                                                                                                                                                                   |                |                |                     |                 |                    |         |      |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|----------------|---------------------------------|----------------|-------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|---------------------|-----------------|--------------------|---------|------|--------|-------|-----------|---|---|---|---|---|---|---|---|---|---|------|
| Customer Information                                                                                                                                                      |            |                         |                | Project Information             |                |                         |               | Parameter/Method Request for Analysis                                                                                                                                                                                            |                |                         |               |                                                                                                                                                                                                   |                |                |                     |                 |                    |         |      |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
| Purchase Order                                                                                                                                                            | Work Order | Company Name            | Send Report To | Project Name                    | Project Number | Bill To Company         | Invoice Attn  | Project Name                                                                                                                                                                                                                     | Project Number | Bill To Company         | Invoice Attn  | City/State/Zip                                                                                                                                                                                    | Phone          | Fax            | e-Mail Address      | No.             | Sample Description | Date    | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|                                                                                                                                                                           |            | Navajo Refining Company | Darrell Moore  | Lea Refinery, Navajo, NM        | NAV-10-000002  | Navajo Refining Company | Darrell Moore | Lea Refinery, Navajo, NM                                                                                                                                                                                                         | NAV-10-000002  | Navajo Refining Company | Darrell Moore | Artesia, NM 88211                                                                                                                                                                                 | (505) 746-3311 | (505) 746-5421 | dgmoyen@SESI-NM.com | 1               | WSB-6 110'         | 6/10/10 | 0900 | Soil   | 8     | 2         | X | X | X | X | X |   |   |   |   |   |      |
|                                                                                                                                                                           |            |                         |                |                                 |                |                         |               |                                                                                                                                                                                                                                  |                |                         |               |                                                                                                                                                                                                   |                |                |                     | 2               | WSB-4 30'          |         | 1115 |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
|                                                                                                                                                                           |            |                         |                |                                 |                |                         |               |                                                                                                                                                                                                                                  |                |                         |               |                                                                                                                                                                                                   |                |                |                     |                 | 40'                |         | 1125 |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
|                                                                                                                                                                           |            |                         |                |                                 |                |                         |               |                                                                                                                                                                                                                                  |                |                         |               |                                                                                                                                                                                                   |                |                |                     |                 | 50'                |         | 1135 |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
|                                                                                                                                                                           |            |                         |                |                                 |                |                         |               |                                                                                                                                                                                                                                  |                |                         |               |                                                                                                                                                                                                   |                |                |                     |                 | 60'                |         | 1240 |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
|                                                                                                                                                                           |            |                         |                |                                 |                |                         |               |                                                                                                                                                                                                                                  |                |                         |               |                                                                                                                                                                                                   |                |                |                     |                 | 70'                |         | 1250 |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
|                                                                                                                                                                           |            |                         |                |                                 |                |                         |               |                                                                                                                                                                                                                                  |                |                         |               |                                                                                                                                                                                                   |                |                |                     |                 | 80                 |         | 1300 |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
|                                                                                                                                                                           |            |                         |                |                                 |                |                         |               |                                                                                                                                                                                                                                  |                |                         |               |                                                                                                                                                                                                   |                |                |                     |                 | 90                 |         | 1310 |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
|                                                                                                                                                                           |            |                         |                |                                 |                |                         |               |                                                                                                                                                                                                                                  |                |                         |               |                                                                                                                                                                                                   |                |                |                     |                 | 100                |         | 1320 |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
|                                                                                                                                                                           |            | WSB-4                   | 110            |                                 |                |                         |               |                                                                                                                                                                                                                                  |                |                         |               |                                                                                                                                                                                                   |                |                |                     |                 |                    | 6/10/10 | 1330 | Soil   | 8     | 2         | X | X | X | X | X |   |   |   |   |   |      |
| Sampler(s) Please Print & Sign<br><b>S. G. Boyer</b>                                                                                                                      |            |                         |                | Shipment Method<br><b>FedEx</b> |                |                         |               | Required Turnaround Time: (Check Box)<br><input checked="" type="checkbox"/> 5-7 Days <input type="checkbox"/> 10-14 Days <input type="checkbox"/> 15-21 Days <input type="checkbox"/> 21-28 Days <input type="checkbox"/> Other |                |                         |               | Results Due Date:<br><input type="checkbox"/> 5-7 Days <input type="checkbox"/> 10-14 Days <input type="checkbox"/> 15-21 Days <input type="checkbox"/> 21-28 Days <input type="checkbox"/> Other |                |                |                     |                 |                    |         |      |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
| Relinquished by: <b>S. G. Boyer</b>                                                                                                                                       |            |                         |                | Received by:                    |                |                         |               | Notes: 10 Day TAT. CC Dave Boyer                                                                                                                                                                                                 |                |                         |               |                                                                                                                                                                                                   |                |                |                     |                 |                    |         |      |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
| Relinquished by: <b>S. G. Boyer</b>                                                                                                                                       |            |                         |                | Received by: <b>S. G. Boyer</b> |                |                         |               | QC Packaging: (Check One Box Below)<br><input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC/RAW Data <input type="checkbox"/> Level IV SW/346/CLP <input type="checkbox"/> Other        |                |                         |               |                                                                                                                                                                                                   |                |                |                     |                 |                    |         |      |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
| Logged by (Laboratory):                                                                                                                                                   |            |                         |                | Checked by (Laboratory):        |                |                         |               | Cooler ID:                                                                                                                                                                                                                       |                |                         |               | Cooler Temp:                                                                                                                                                                                      |                |                |                     | TRAP Check List |                    |         |      |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
| Date: 6/11/10                                                                                                                                                             |            |                         |                | Date: 6/11/10                   |                |                         |               | Time: 1230                                                                                                                                                                                                                       |                |                         |               | Time: 1400                                                                                                                                                                                        |                |                |                     | TRAP Level IV   |                    |         |      |        |       |           |   |   |   |   |   |   |   |   |   |   |      |
| Preservative Key: 1-HCl, 2-HNO <sub>3</sub> , 3-H <sub>2</sub> SO <sub>4</sub> , 4-NaOH, 5-Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub> , 6-NaHSO <sub>3</sub> , 7-Other |            |                         |                | 8-4°C                           |                |                         |               | 9-5035                                                                                                                                                                                                                           |                |                         |               |                                                                                                                                                                                                   |                |                |                     |                 |                    |         |      |        |       |           |   |   |   |   |   |   |   |   |   |   |      |

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| Customer Information                                                                                                                                                                     |                    |         |      | Project Information                 |       |           |   | ALS Project Manager: [Signature]      |   |   |   |                                       |   |   |   |                   |      |  |  | ALS Work Order #: 1004499 |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|------|-------------------------------------|-------|-----------|---|---------------------------------------|---|---|---|---------------------------------------|---|---|---|-------------------|------|--|--|---------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Project Name                                                                                                                                                                             |                    |         |      | Lea Refinery New Mexico [Signature] |       |           |   | Parameter/Method Request for Analysis |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| Project Number                                                                                                                                                                           |                    |         |      | NAV-10-000 0002                     |       |           |   | BTEX (8021)                           |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| Bill To Company                                                                                                                                                                          |                    |         |      | Navajo Refining Company             |       |           |   | GRO (8015M)                           |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| Invoice Attn                                                                                                                                                                             |                    |         |      | Darrell Moore                       |       |           |   | DRO (8015M)                           |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| Address                                                                                                                                                                                  |                    |         |      | P.O. Box 159                        |       |           |   | ORO (8015M)                           |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| City/State/Zip                                                                                                                                                                           |                    |         |      | Artesia, NM 88211                   |       |           |   | Antions (300) Cl                      |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| Phone                                                                                                                                                                                    |                    |         |      | (505) 748-3311                      |       |           |   |                                       |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| Fax                                                                                                                                                                                      |                    |         |      | (505) 746-5421                      |       |           |   |                                       |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| e-Mail Address                                                                                                                                                                           |                    |         |      | digboyer@SES-NM.com                 |       |           |   |                                       |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| No.                                                                                                                                                                                      | Sample Description | Date    | Time | Matrix                              | Pres. | # Bottles | A | B                                     | C | D | E | F                                     | G | H | I | J                 | Hold |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| 1                                                                                                                                                                                        | WSB-5 30'          | 6/11/10 | 0655 | Soil                                | B     | 2         | X | X                                     | X | X | X |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| 2                                                                                                                                                                                        | 40'                |         | 0705 |                                     |       |           |   |                                       |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| 3                                                                                                                                                                                        | 50'                |         | 0720 |                                     |       |           |   |                                       |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| 4                                                                                                                                                                                        | 60'                |         | 0730 |                                     |       |           |   |                                       |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| 5                                                                                                                                                                                        | 70'                |         | 0740 |                                     |       |           |   |                                       |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| 6                                                                                                                                                                                        | 80'                |         | 0750 |                                     |       |           |   |                                       |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| 7                                                                                                                                                                                        | 90'                |         | 0800 |                                     |       |           |   |                                       |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| 8                                                                                                                                                                                        | 100'               |         | 0810 |                                     |       |           |   |                                       |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| 9                                                                                                                                                                                        | WSB-5 110'         |         | 0820 |                                     |       |           |   |                                       |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| 10                                                                                                                                                                                       | WSB-7 12'          | 6/11/10 | 1200 | Soil                                | B     | 2         | X | X                                     | X | X | X |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| Sampler(s) Please Print & Sign                                                                                                                                                           |                    |         |      | D.G. Boyer [Signature]              |       |           |   | Shipment Method                       |   |   |   | Required Turnaround Time: (Check Box) |   |   |   | Results Due Date: |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished by: [Signature]                                                                                                                                                             |                    |         |      | Date: 6/14/10                       |       |           |   | Time: 1630                            |   |   |   | Received by: [Signature]              |   |   |   | Date: 6/15/10     |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished by: [Signature]                                                                                                                                                             |                    |         |      | Date: 6/14/10                       |       |           |   | Time: 1630                            |   |   |   | Received by: [Signature]              |   |   |   | Date: 6/15/10     |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| Logged by (Laboratory):                                                                                                                                                                  |                    |         |      | Date:                               |       |           |   | Time:                                 |   |   |   | Cooler ID:                            |   |   |   | Cooler Temp:      |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |
| Preservative Key: 1-HCl; 2-HNO <sub>3</sub> ; 3-H <sub>2</sub> SO <sub>4</sub> ; 4-NaOH; 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ; 6-NaHSO <sub>4</sub> ; 7-Other: 8-4°C; 9-5035 |                    |         |      |                                     |       |           |   |                                       |   |   |   |                                       |   |   |   |                   |      |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |

OC Packages: (Check One Box Below)  
☒ Level II Std QC  
☐ Level III Std QC/Raw Data  
☐ Level IV SWM/MSCLP  
☐ Other

Notes: 10 Day TAT. Co Dave Boyer

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| Customer Information |                    |        |       | Project Information |      |           |   | ALS Project Manager: [Signature]      |   |   |   |   |   |   |   |   |      |  |  | ALS Work Order #: 001299 |  |  |  |  |  |  |  |  |  |  |  |
|----------------------|--------------------|--------|-------|---------------------|------|-----------|---|---------------------------------------|---|---|---|---|---|---|---|---|------|--|--|--------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Purchase Order       |                    |        |       | Project Name        |      |           |   | Parameter/Method Request for Analysis |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Work Order           |                    |        |       | Project Number      |      |           |   | BTEX (8021)                           |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Company Name         |                    |        |       | Bill To Company     |      |           |   | GRO (8015M)                           |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Send Report To       |                    |        |       | Invoice Attn        |      |           |   | DRO (8015M)                           |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Address              |                    |        |       | P.O. Box 159        |      |           |   | ORO (8015M)                           |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| City/State/Zip       |                    |        |       | Artesia, NM 88211   |      |           |   | Anions (300) Cl                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Phone                |                    |        |       | (505) 748-3311      |      |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Fax                  |                    |        |       | (505) 746-5421      |      |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| E-Mail Address       |                    |        |       | dgbayer@SES-NM.com  |      |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| No.                  | Sample Description | Date   | Time  | Matrix              | Pres | # Bottles | A | B                                     | C | D | E | F | G | H | I | J | Hold |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 1                    | W5B-7 20'          | 6/1/10 | 12:10 | Soil                | 8    | 2         | X | X                                     | X | X | X |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 2                    | 30'                |        | 13:25 |                     |      |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 3                    | 40'                |        | 13:35 |                     |      |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 4                    | 50'                |        | 13:40 |                     |      |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 5                    | 60'                |        | 13:50 |                     |      |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 6                    | 70'                |        | 14:00 |                     |      |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 7                    | 80'                |        | 14:10 |                     |      |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 8                    | 90'                |        | 14:30 |                     |      |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 9                    | 100'               |        | 14:40 |                     |      |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 10                   | W5B-7 110'         | 6/1/10 | 14:50 | Soil                | 8    | 2         | X | X                                     | X | X | X |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |

| Sampler(s) Please Print & Sign |  | Shipment Method |  | Required Turnaround Time: (Check Box) |  | Results Due Date: |  |
|--------------------------------|--|-----------------|--|---------------------------------------|--|-------------------|--|
| D. G. Bayer                    |  | 502 EX          |  | 2 WK Days                             |  | 2 WK Days         |  |

| Relinquished by: |  | Received by: |  | Notes:                     |  |
|------------------|--|--------------|--|----------------------------|--|
| [Signature]      |  | [Signature]  |  | 10 Day TAT. Co. Dave Bayer |  |

| Relinquished by: |  | Received by: |  | QC Package: (Check One Box Below)                   |  |
|------------------|--|--------------|--|-----------------------------------------------------|--|
| [Signature]      |  | [Signature]  |  | <input checked="" type="checkbox"/> Level II Std QC |  |
|                  |  |              |  | <input type="checkbox"/> Level III Std QC/Raw Data  |  |
|                  |  |              |  | <input type="checkbox"/> Level IV SW346/CLP         |  |
|                  |  |              |  | <input type="checkbox"/> Other                      |  |

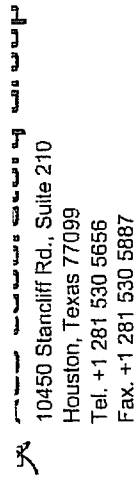
| Logged by (Laboratory): |  | Checked by (Laboratory): |  | TRRP Checked by: |  |
|-------------------------|--|--------------------------|--|------------------|--|
| [Signature]             |  | [Signature]              |  | [Signature]      |  |

| Preservative Key:                                                                                                                             |  | Other: |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|--------|--|
| 1-HCl, 2-HNO <sub>3</sub> , 3-H <sub>2</sub> SO <sub>4</sub> , 4-NaOH, 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 6-NaHSO <sub>3</sub> |  | 9-5035 |  |

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| Customer Information |  |                 |  | Project Information |  |                                     |  | ALS Project Manager: |  |                   |  | Parameter/Method Request for Analysis |  |                   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
|----------------------|--|-----------------|--|---------------------|--|-------------------------------------|--|----------------------|--|-------------------|--|---------------------------------------|--|-------------------|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|
| Purchase Order       |  | Project Name    |  | Project Name        |  | VOC (8260) Select                   |  | ALS Work Order #:    |  | ALS Work Order #: |  | ALS Work Order #:                     |  | ALS Work Order #: |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Work Order           |  | Project Number  |  | Project Number      |  | Total Metals (6020/7000) Hg         |  | ALS Work Order #:    |  | ALS Work Order #: |  | ALS Work Order #:                     |  | ALS Work Order #: |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Company Name         |  | Bill-To Company |  | Bill-To Company     |  | Dissolved Metals (6020/7000) Select |  | ALS Work Order #:    |  | ALS Work Order #: |  | ALS Work Order #:                     |  | ALS Work Order #: |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Send Report To       |  | Invoice Attn    |  | Invoice Attn        |  | Anions (300) Cl, F, SO4             |  | ALS Work Order #:    |  | ALS Work Order #: |  | ALS Work Order #:                     |  | ALS Work Order #: |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Address              |  | Address         |  | Address             |  | Alkalinity                          |  | ALS Work Order #:    |  | ALS Work Order #: |  | ALS Work Order #:                     |  | ALS Work Order #: |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
| City/State/Zip       |  | City/State/Zip  |  | City/State/Zip      |  | pH                                  |  | ALS Work Order #:    |  | ALS Work Order #: |  | ALS Work Order #:                     |  | ALS Work Order #: |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Phone                |  | Phone           |  | Phone               |  | Specific Conductivity               |  | ALS Work Order #:    |  | ALS Work Order #: |  | ALS Work Order #:                     |  | ALS Work Order #: |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Fax                  |  | Fax             |  | Fax                 |  | TDS                                 |  | ALS Work Order #:    |  | ALS Work Order #: |  | ALS Work Order #:                     |  | ALS Work Order #: |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
| e-Mail Address       |  | e-Mail Address  |  | e-Mail Address      |  | Nitrate/Nitrite (300)               |  | ALS Work Order #:    |  | ALS Work Order #: |  | ALS Work Order #:                     |  | ALS Work Order #: |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Sample Description   |  | Date            |  | Time                |  | Matrix                              |  | Pres. # Bottles      |  | A                 |  | B                                     |  | C                 |  | D |  | E |  | F |  | G |  | H |  | I |  | J |  | K |  | L |  | M |  | N |  | O |  | P |  | Q |  | R |  | S |  | T |  | U |  | V |  | W |  | X |  | Y |  | Z |  | AA |  | AB |  | AC |  | AD |  | AE |  | AF |  | AG |  | AH |  | AI |  | AJ |  | AK |  | AL |  | AM |  | AN |  | AO |  | AP |  | AQ |  | AR |  | AS |  | AT |  | AU |  | AV |  | AW |  | AX |  | AY |  | AZ |  | BA |  | BB |  | BC |  | BD |  | BE |  | BF |  | BG |  | BH |  | BI |  | BJ |  | BK |  | BL |  | BM |  | BN |  | BO |  | BP |  | BQ |  | BR |  | BS |  | BT |  | BU |  | BV |  | BW |  | BX |  | BY |  | BZ |  | CA |  | CB |  | CC |  | CD |  | CE |  | CF |  | CG |  | CH |  | CI |  | CJ |  | CK |  | CL |  | CM |  | CN |  | CO |  | CP |  | CQ |  | CR |  | CS |  | CT |  | CU |  | CV |  | CW |  | CX |  | CY |  | CZ |  | DA |  | DB |  | DC |  | DD |  | DE |  | DF |  | DG |  | DH |  | DI |  | DJ |  | DK |  | DL |  | DM |  | DN |  | DO |  | DP |  | DQ |  | DR |  | DS |  | DT |  | DU |  | DV |  | DW |  | DX |  | DY |  | DZ |  | EA |  | EB |  | EC |  | ED |  | EE |  | EF |  | EG |  | EH |  | EI |  | EJ |  | EK |  | EL |  | EM |  | EN |  | EO |  | EP |  | EQ |  | ER |  | ES |  | ET |  | EU |  | EV |  | EW |  | EX |  | EY |  | EZ |  | FA |  | FB |  | FC |  | FD |  | FE |  | FF |  | FG |  | FH |  | FI |  | FJ |  | FK |  | FL |  | FM |  | FN |  | FO |  | FP |  | FQ |  | FR |  | FS |  | FT |  | FU |  | FV |  | FW |  | FX |  | FY |  | FZ |  | GA |  | GB |  | GC |  | GD |  | GE |  | GF |  | GG |  | GH |  | GI |  | GJ |  | GK |  | GL |  | GM |  | GN |  | GO |  | GP |  | GQ |  | GR |  | GS |  | GT |  | GU |  | GV |  | GW |  | GX |  | GY |  | GZ |  | HA |  | HB |  | HC |  | HD |  | HE |  | HF |  | HG |  | HH |  | HI |  | HJ |  | HK |  | HL |  | HM |  | HN |  | HO |  | HP |  | HQ |  | HR |  | HS |  | HT |  | HU |  | HV |  | HW |  | HX |  | HY |  | HZ |  | IA |  | IB |  | IC |  | ID |  | IE |  | IF |  | IG |  | IH |  | II |  | IJ |  | IK |  | IL |  | IM |  | IN |  | IO |  | IP |  | IQ |  | IR |  | IS |  | IT |  | IU |  | IV |  | IW |  | IX |  | IY |  | IZ |  | JA |  | JB |  | JC |  | JD |  | JE |  | JF |  | JG |  | JH |  | JI |  | JJ |  | JK |  | JL |  | JM |  | JN |  | JO |  | JP |  | JQ |  | JR |  | JS |  | JT |  | JU |  | JV |  | JW |  | JX |  | JY |  | JZ |  | KA |  | KB |  | KC |  | KD |  | KE |  | KF |  | KG |  | KH |  | KI |  | KJ |  | KK |  | KL |  | KM |  | KN |  | KO |  | KP |  | KQ |  | KR |  | KS |  | KT |  | KU |  | KV |  | KW |  | KX |  | KY |  | KZ |  | LA |  | LB |  | LC |  | LD |  | LE |  | LF |  | LG |  | LH |  | LI |  | LJ |  | LK |  | LL |  | LM |  | LN |  | LO |  | LP |  | LQ |  | LR |  | LS |  | LT |  | LU |  | LV |  | LW |  | LX |  | LY |  | LZ |  | MA |  |

**Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.**

lot): 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

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# ALS Laboratory Group

## Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: 15-Jun-10 11:40

Work Order: 1006499

Received by: RDH

Checklist completed by Raymond N Gamba  
eSignature

15-Jun-10  
Date

Reviewed by:

eSignature

Date

Matrices: Soil, Water

Carrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

1.6c, 2.3c, 2.7c

002

Cooler(s)/Kit(s):

2497, 3283, 1509

Water - VOA vials have zero headspace?

Yes ☒

No ☐

No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



W.O. # 1006199

This portion can be removed for recipient's records

to 6/14/10 FedEx Tracking Number 873133852620  
Sender's Name S Bayer Phone 575 390-7067  
Company SFEI  
Address 703 E Clinton 1509  
Hobbs State NM ZIP 87006  
Internal Billing Reference NAV-10-002 88240

 **ALS Laboratory Group**  
10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

| CUSTODY SEAL         |                   | Seal Broken By: |
|----------------------|-------------------|-----------------|
| Date: <u>6/14/10</u> | Time: <u>1630</u> | <u>6/15/10</u>  |
| Name: <u>S Bayer</u> |                   |                 |
| Company: <u>SFEI</u> |                   |                 |

 **ALS Laboratory Group**  
10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

| CUSTODY SEAL         |                   | Seal Broken By: |
|----------------------|-------------------|-----------------|
| Date: <u>6/14/10</u> | Time: <u>1630</u> | <u>6/15/10</u>  |
| Name: <u>S Bayer</u> |                   |                 |
| Company: <u>SFEI</u> |                   |                 |

This portion can be removed for Recipient's records.

873133853486

W.D.# 1000499

Date: 6/14/10

FedEx Tracking Number

Sender's Name

A Boyer

Phone

575 39107067

Company

SESI

Address

703 E Clinton

Dept./Floor/Suite/Room

Hobbs

State

ZIP

NM 88240

Our Internal Billing Reference

NAU-10-002



ALS Laboratory Group

10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

Laboratory Group  
Suite 210

CUSTODY SEAL

Date:

Name:

Company:

Time:

1630

DAVID BOYER

SESI

Seal Broken By:

Date:

6/15/10

CUSTODY SEAL

Date: 6/14/10

Time:

1630

Name:

Company:

DAVID BOYER

SESI

Seal Broken By:

Date:

6/15/10

This portion can be removed for Recipient's records.

869809950908

Date: 6/14/10

FedEx Tracking Number

Sender's Name

A Boyer

Phone

575 39107067

Company

SESI

Address

703 E Clinton

Dept./Floor/Suite/Room

Hobbs

State

ZIP

NM 88240

Our Internal Billing Reference

NAU-10-002



ALS Laboratory Group

10450 Stancliff Rd, Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

Laboratory Group

Suite 210  
099  
56  
187

CUSTODY SEAL

Date:

Name:

Company:

6/14/10

Time:

1630

DAVID BOYER

SESI

Seal Broken By:

Date:

6/15/10



ALS Laboratory Group

10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

CUSTODY SEAL

Date:

Name:

Company:

6/14/10

Time:

1630

DAVID BOYER

SESI

SEA

13

90

V

Seal Broken By:  
Date: 6/15/10

# ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



## Environmental Division

19-Jul-2010

Darrell Moore  
Navajo Refining Company  
PO Box 159  
Artesia, NM 88211

Tel: (575) 748-6733  
Fax: (575) 746-5421

Re: Lea Refining Soil Borings

Work Order: 1007008

Dear Darrell,

ALS Laboratory Group received 46 samples on 30-Jun-2010 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 75.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Tiffany Van

JayLynn F Thibault  
Project Manager



Certificate No: T104704231-09A-TX

### ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

[www.alsglobal.com](http://www.alsglobal.com) [www.elabi.com](http://www.elabi.com)

A Campbell Brothers Limited Company

**ALS Laboratory Group**

Date: 19-Jul-10

**Client:** Navajo Refining Company  
**Project:** Lea Refining Soil Borings  
**Work Order:** 1007008

**Work Order Sample Summary**

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1007008-01         | WSB-8 10'               | Soil          |                   | 6/26/2010 08:20        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-02         | WSB-8 20'               | Soil          |                   | 6/26/2010 08:25        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-03         | WSB-8 30'               | Soil          |                   | 6/26/2010 08:35        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-04         | WSB-8 40'               | Soil          |                   | 6/26/2010 08:40        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-05         | WSB-8 50'               | Soil          |                   | 6/26/2010 08:50        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-06         | WSB-8 60'               | Soil          |                   | 6/26/2010 09:05        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-07         | WSB-8 70'               | Soil          |                   | 6/26/2010 09:15        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-08         | WSB-8 80'               | Soil          |                   | 6/26/2010 09:25        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-09         | WSB-8 90'               | Soil          |                   | 6/26/2010 09:35        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-10         | WSB-8 100'              | Soil          |                   | 6/26/2010 09:45        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-11         | WSB-8 110'              | Soil          |                   | 6/26/2010 09:55        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-12         | WSB-9 10'               | Soil          |                   | 6/26/2010 13:05        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-13         | WSB-9 20'               | Soil          |                   | 6/26/2010 13:15        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-14         | WSB-9 30'               | Soil          |                   | 6/26/2010 13:20        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-15         | WSB-9 40'               | Soil          |                   | 6/26/2010 13:25        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-16         | WSB-9 50'               | Soil          |                   | 6/26/2010 13:35        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-17         | WSB-9 60'               | Soil          |                   | 6/26/2010 13:40        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-18         | WSB-9 70'               | Soil          |                   | 6/26/2010 13:45        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-19         | WSB-9 80'               | Soil          |                   | 6/26/2010 13:55        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-20         | WSB-9 90'               | Soil          |                   | 6/26/2010 14:00        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-21         | WSB-9 100'              | Soil          |                   | 6/28/2010 14:05        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-22         | WSB-9 110'              | Soil          |                   | 6/28/2010 14:10        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-23         | WSB-11 10'              | Soil          |                   | 6/28/2010 09:10        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-24         | WSB-11 20'              | Soil          |                   | 6/28/2010 09:25        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-25         | WSB-11 30'              | Soil          |                   | 6/28/2010 09:50        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-26         | WSB-11 40'              | Soil          |                   | 6/28/2010 10:00        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-27         | WSB-11 50'              | Soil          |                   | 6/28/2010 10:10        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-28         | WSB-11 60'              | Soil          |                   | 6/28/2010 10:20        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-29         | WSB-11 70'              | Soil          |                   | 6/28/2010 10:25        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-30         | WSB-11 80'              | Soil          |                   | 6/28/2010 10:30        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-31         | WSB-11 90'              | Soil          |                   | 6/28/2010 10:40        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-32         | WSB-11 100'             | Soil          |                   | 6/28/2010 10:45        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-33         | WSB-11 110'             | Soil          |                   | 6/28/2010 11:00        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-34         | WSB-10 10'              | Soil          |                   | 6/28/2010 13:00        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-35         | WSB-10 20'              | Soil          |                   | 6/28/2010 13:10        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-36         | WSB-10 30'              | Soil          |                   | 6/28/2010 13:55        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-37         | WSB-10 40'              | Soil          |                   | 6/28/2010 14:05        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-38         | WSB-10 50'              | Soil          |                   | 6/28/2010 14:15        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-39         | WSB-10 60'              | Soil          |                   | 6/28/2010 14:25        | 6/30/2010 09:00      | <input type="checkbox"/> |

**Client:** Navajo Refining Company  
**Project:** Lea Refining Soil Borings  
**Work Order:** 1007008

## Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1007008-40         | WSB-10 70'              | Soil          |                   | 6/28/2010 14:35        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-41         | WSB-10 80'              | Soil          |                   | 6/28/2010 14:40        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-42         | WSB-10 90'              | Soil          |                   | 6/28/2010 14:50        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-43         | WSB-10 100'             | Soil          |                   | 6/28/2010 15:00        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-44         | WSB-10 110'             | Soil          |                   | 6/28/2010 15:05        | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-45         | Trip Blank 061410-36    | Water         |                   | 6/28/2010              | 6/30/2010 09:00      | <input type="checkbox"/> |
| 1007008-46         | Trip Blank 061410-37    | Water         |                   | 6/28/2010              | 6/30/2010 09:00      | <input type="checkbox"/> |

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**Client:** Navajo Refining Company  
**Project:** Lea Refining Soil Borings  
**Work Order:** 1007008

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**Case Narrative**

BTEX (Sample 1007008-03) Lowest practical dilution due to matrix.

8015\_GRO (Samples 1007008-03 and 04) recovery out of control limits for surrogate due to dilution.

8015 DRO/ORO (Samples 1007008-03,04,09 and 27) recovery out of control limits for surrogate due to dilution.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-8 10'

Collection Date: 6/26/2010 08:20 AM

Work Order: 1007008

Lab ID: 1007008-01

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|--------------|--------------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                     |                    |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Motor Oil Range)          | ND     |      |              | 3.4 mg/Kg    | 1                   | 7/15/2010 07:06 PM |
| Surr: 2-Fluorobiphenyl         | 77.6   |      | 70-130       | %REC         | 1                   | 7/15/2010 07:06 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                     |                    |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1                   | Analyst: KKP       |
| Surr: 4-Bromofluorobenzene     | 115    |      | 70-130       | %REC         | 1                   | 7/8/2010 05:16 PM  |
| <b>BTEX</b>                    |        |      |              |              |                     |                    |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1                   | Analyst: KKP       |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1                   | 7/1/2010 08:15 PM  |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1                   | 7/1/2010 08:15 PM  |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1                   | 7/1/2010 08:15 PM  |
| Surr: 4-Bromofluorobenzene     | 90.8   |      | 75-131       | %REC         | 1                   | 7/1/2010 08:15 PM  |
| Surr: Trifluorotoluene         | 87.7   |      | 73-130       | %REC         | 1                   | 7/1/2010 08:15 PM  |
| <b>ANIONS</b>                  |        |      |              |              |                     |                    |
| Chloride                       | 5.32   |      | E300         | 5.00 mg/Kg   | Prep Date: 7/8/2010 | Analyst: JBA       |
| Surr: Selenate (surr)          | 0      |      | 85-115       | %REC         | 1                   | 7/10/2010 08:39 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-8 20'

Lab ID: 1007008-02

Collection Date: 6/26/2010 08:25 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | 2.2    |      | 1.7            | mg/Kg | 1                   | 7/15/2010 05:20 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 05:20 AM |
| Surr: 2-Fluorobiphenyl         | 71.2   |      | 70-130         | %REC  | 1                   | 7/15/2010 05:20 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/9/2010 06:00 PM  |
| Surr: 4-Bromofluorobenzene     | 117    |      | 70-130         | %REC  | 1                   | 7/9/2010 06:00 PM  |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:57 AM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:57 AM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:57 AM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 08:57 AM  |
| Surr: 4-Bromofluorobenzene     | 99.7   |      | 75-131         | %REC  | 1                   | 7/2/2010 08:57 AM  |
| Surr: Trifluorotoluene         | 92.5   |      | 73-130         | %REC  | 1                   | 7/2/2010 08:57 AM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: JBA       |
| Chloride                       | 35.2   |      | 5.00           | mg/Kg | 1                   | 7/10/2010 10:06 PM |
| Surr: Selenate (surr)          | 0      |      | 85-115         | %REC  | 1                   | 7/10/2010 10:06 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company  
 Project: Lea Refining Soil Borings  
 Sample ID: WSB-8 30'  
 Collection Date: 6/26/2010 08:35 AM

Work Order: 1007008  
 Lab ID: 1007008-03  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | 950    |      | 170            | mg/Kg | 100                 | 7/15/2010 05:39 AM |
| TPH (Motor Oil Range)          | 370    |      | 340            | mg/Kg | 100                 | 7/15/2010 05:39 AM |
| Surr: 2-Fluorobiphenyl         | 0      | S    | 70-130         | %REC  | 100                 | 7/15/2010 05:39 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | 43     |      | 0.25           | mg/Kg | 5                   | 7/8/2010 04:02 PM  |
| Surr: 4-Bromofluorobenzene     | 262    | S    | 70-130         | %REC  | 5                   | 7/8/2010 04:02 PM  |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.25           | mg/Kg | 250                 | 7/3/2010 02:42 PM  |
| Toluene                        | ND     |      | 0.25           | mg/Kg | 250                 | 7/3/2010 02:42 PM  |
| Ethylbenzene                   | 1.8    |      | 0.25           | mg/Kg | 250                 | 7/3/2010 02:42 PM  |
| Xylenes, Total                 | 2.2    |      | 0.75           | mg/Kg | 250                 | 7/3/2010 02:42 PM  |
| Surr: 4-Bromofluorobenzene     | 96.5   |      | 75-131         | %REC  | 250                 | 7/3/2010 02:42 PM  |
| Surr: Trifluorotoluene         | 96.4   |      | 73-130         | %REC  | 250                 | 7/3/2010 02:42 PM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: JBA       |
| Chloride                       | 14.7   |      | 4.97           | mg/Kg | 1                   | 7/10/2010 10:28 PM |
| Surr: Selenate (surr)          | 0      |      | 85-115         | %REC  | 1                   | 7/10/2010 10:28 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 19-Jul-10

**Client:** Navajo Refining Company  
**Project:** Lea Refining Soil Borings  
**Sample ID:** WSB-8 40'  
**Collection Date:** 6/26/2010 08:40 AM

**Work Order:** 1007008  
**Lab ID:** 1007008-04  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | 860    |      | 170            | mg/Kg | 100                 | 7/15/2010 05:58 AM |
| TPH (Motor Oil Range)          | ND     |      | 340            | mg/Kg | 100                 | 7/15/2010 05:58 AM |
| Surr: 2-Fluorobiphenyl         | 0      | S    | 70-130         | %REC  | 100                 | 7/15/2010 05:58 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | 19     |      | 0.25           | mg/Kg | 5                   | 7/8/2010 02:54 PM  |
| Surr: 4-Bromofluorobenzene     | 165    | S    | 70-130         | %REC  | 5                   | 7/8/2010 02:54 PM  |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0050         | mg/Kg | 5                   | 7/2/2010 09:57 AM  |
| Toluene                        | 0.022  |      | 0.0050         | mg/Kg | 5                   | 7/2/2010 09:57 AM  |
| Ethylbenzene                   | 0.95   |      | 0.25           | mg/Kg | 250                 | 7/3/2010 03:19 PM  |
| Xylenes, Total                 | 1.2    |      | 0.75           | mg/Kg | 250                 | 7/3/2010 03:19 PM  |
| Surr: 4-Bromofluorobenzene     | 102    |      | 75-131         | %REC  | 5                   | 7/2/2010 09:57 AM  |
| Surr: 4-Bromofluorobenzene     | 103    |      | 75-131         | %REC  | 250                 | 7/3/2010 03:19 PM  |
| Surr: Trifluorotoluene         | 97.5   |      | 73-130         | %REC  | 5                   | 7/2/2010 09:57 AM  |
| Surr: Trifluorotoluene         | 93.5   |      | 73-130         | %REC  | 250                 | 7/3/2010 03:19 PM  |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: JBA       |
| Chloride                       | 62.2   |      | 4.77           | mg/Kg | 1                   | 7/10/2010 11:33 PM |
| Surr: Selenate (surr)          | 90.6   |      | 85-115         | %REC  | 1                   | 7/10/2010 11:33 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-8 50'

Lab ID: 1007008-05

Collection Date: 6/26/2010 08:50 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|---------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: <b>RPM</b> |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/10/2010 03:00 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/10/2010 03:00 PM  |
| Surr: 2-Fluorobiphenyl         | 78.0   |      | 70-130         | %REC  | 1                   | 7/10/2010 03:00 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/9/2010 01:23 PM   |
| Surr: 4-Bromofluorobenzene     | 108    |      | 70-130         | %REC  | 1                   | 7/9/2010 01:23 PM   |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 09:16 PM   |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 09:16 PM   |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 09:16 PM   |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/1/2010 09:16 PM   |
| Surr: 4-Bromofluorobenzene     | 86.6   |      | 75-131         | %REC  | 1                   | 7/1/2010 09:16 PM   |
| Surr: Trifluorotoluene         | 88.2   |      | 73-130         | %REC  | 1                   | 7/1/2010 09:16 PM   |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: <b>JBA</b> |
| Chloride                       | 49.4   |      | 4.78           | mg/Kg | 1                   | 7/10/2010 11:55 PM  |
| Surr: Selenate (surr)          | 91.7   |      | 85-115         | %REC  | 1                   | 7/10/2010 11:55 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-8 60'

Lab ID: 1007008-06

Collection Date: 6/26/2010 09:05 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | 2.2    |      | 1.7            | mg/Kg | 1                   | 7/15/2010 06:18 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 06:18 AM |
| Surr: 2-Fluorobiphenyl         | 89.5   |      | 70-130         | %REC  | 1                   | 7/15/2010 06:18 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/9/2010 01:47 PM  |
| Surr: 4-Bromofluorobenzene     | 114    |      | 70-130         | %REC  | 1                   | 7/9/2010 01:47 PM  |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 10:16 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 10:16 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 10:16 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/1/2010 10:16 PM  |
| Surr: 4-Bromofluorobenzene     | 90.2   |      | 75-131         | %REC  | 1                   | 7/1/2010 10:16 PM  |
| Surr: Trifluorotoluene         | 90.0   |      | 73-130         | %REC  | 1                   | 7/1/2010 10:16 PM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: JBA       |
| Chloride                       | 22.9   |      | 4.80           | mg/Kg | 1                   | 7/11/2010 12:16 AM |
| Surr: Selenate (surr)          | 90.8   |      | 85-115         | %REC  | 1                   | 7/11/2010 12:16 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-8 70'

Lab ID: 1007008-07

Collection Date: 6/26/2010 09:15 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|---------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: <b>RPM</b> |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/10/2010 04:17 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/10/2010 04:17 PM  |
| Surr: 2-Fluorobiphenyl         | 79.6   |      | 70-130         | %REC  | 1                   | 7/10/2010 04:17 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/9/2010 02:11 PM   |
| Surr: 4-Bromofluorobenzene     | 111    |      | 70-130         | %REC  | 1                   | 7/9/2010 02:11 PM   |
| <b>BTEX</b>                    |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 10:36 PM   |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 10:36 PM   |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 10:36 PM   |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/1/2010 10:36 PM   |
| Surr: 4-Bromofluorobenzene     | 93.0   |      | 75-131         | %REC  | 1                   | 7/1/2010 10:36 PM   |
| Surr: Trifluorotoluene         | 91.3   |      | 73-130         | %REC  | 1                   | 7/1/2010 10:36 PM   |
| <b>ANIONS</b>                  |        |      |                |       |                     |                     |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: <b>JBA</b> |
| Chloride                       | 55.0   |      | 4.87           | mg/Kg | 1                   | 7/11/2010 12:38 AM  |
| Surr: Selenate (surr)          | 91.0   |      | 85-115         | %REC  | 1                   | 7/11/2010 12:38 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-8 80'

Lab ID: 1007008-08

Collection Date: 6/26/2010 09:25 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/10/2010 04:36 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/10/2010 04:36 PM |
| Surr: 2-Fluorobiphenyl         | 76.0   |      | 70-130         | %REC  | 1                   | 7/10/2010 04:36 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/9/2010 02:34 PM  |
| Surr: 4-Bromofluorobenzene     | 112    |      | 70-130         | %REC  | 1                   | 7/9/2010 02:34 PM  |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 10:56 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 10:56 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 10:56 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/1/2010 10:56 PM  |
| Surr: 4-Bromofluorobenzene     | 94.4   |      | 75-131         | %REC  | 1                   | 7/1/2010 10:56 PM  |
| Surr: Trifluorotoluene         | 90.5   |      | 73-130         | %REC  | 1                   | 7/1/2010 10:56 PM  |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: JBA       |
| Chloride                       | 69.1   |      | 4.85           | mg/Kg | 1                   | 7/11/2010 01:00 AM |
| Surr: Selenate (surr)          | 91.5   |      | 85-115         | %REC  | 1                   | 7/11/2010 01:00 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-8 90'

Collection Date: 6/26/2010 09:35 AM

Work Order: 1007008

Lab ID: 1007008-09

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | 350    |      | 42             | mg/Kg | 25                  | 7/15/2010 06:37 AM |
| TPH (Motor Oil Range)          | ND     |      | 85             | mg/Kg | 25                  | 7/15/2010 06:37 AM |
| Surr: 2-Fluorobiphenyl         | 289    | S    | 70-130         | %REC  | 25                  | 7/15/2010 06:37 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | 1.1    |      | 0.050          | mg/Kg | 1                   | 7/8/2010 09:22 PM  |
| Surr: 4-Bromofluorobenzene     | 96.9   |      | 70-130         | %REC  | 1                   | 7/8/2010 09:22 PM  |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 09:37 AM  |
| Toluene                        | 0.0011 |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 09:37 AM  |
| Ethylbenzene                   | 0.0063 |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 09:37 AM  |
| Xylenes, Total                 | 0.014  |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 09:37 AM  |
| Surr: 4-Bromofluorobenzene     | 110    |      | 75-131         | %REC  | 1                   | 7/2/2010 09:37 AM  |
| Surr: Trifluorotoluene         | 82.1   |      | 73-130         | %REC  | 1                   | 7/2/2010 09:37 AM  |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: JBA       |
| Chloride                       | 16.4   |      | 4.99           | mg/Kg | 1                   | 7/11/2010 01:21 AM |
| Surr: Selenate (surr)          | 92.2   |      | 85-115         | %REC  | 1                   | 7/11/2010 01:21 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-8 100'

Collection Date: 6/26/2010 09:45 AM

Work Order: 1007008

Lab ID: 1007008-10

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | 8.1    |      | 1.7            | mg/Kg | 1                   | 7/15/2010 06:57 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 06:57 AM |
| Surr: 2-Fluorobiphenyl         | 82.8   |      | 70-130         | %REC  | 1                   | 7/15/2010 06:57 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | 0.075  |      | 0.050          | mg/Kg | 1                   | 7/9/2010 06:29 PM  |
| Surr: 4-Bromofluorobenzene     | 99.8   |      | 70-130         | %REC  | 1                   | 7/9/2010 06:29 PM  |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 11:16 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 11:16 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 11:16 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/1/2010 11:16 PM  |
| Surr: 4-Bromofluorobenzene     | 83.9   |      | 75-131         | %REC  | 1                   | 7/1/2010 11:16 PM  |
| Surr: Trifluorotoluene         | 84.1   |      | 73-130         | %REC  | 1                   | 7/1/2010 11:16 PM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: JBA       |
| Chloride                       | 10.0   |      | 4.94           | mg/Kg | 1                   | 7/11/2010 01:43 AM |
| Surr: Selenate (surr)          | 91.3   |      | 85-115         | %REC  | 1                   | 7/11/2010 01:43 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-8 110'

Collection Date: 6/26/2010 09:55 AM

Work Order: 1007008

Lab ID: 1007008-11

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 07:16 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 07:16 AM |
| Surr: 2-Fluorobiphenyl         | 89.0   |      | 70-130         | %REC  | 1                   | 7/15/2010 07:16 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/9/2010 02:58 PM  |
| Surr: 4-Bromofluorobenzene     | 105    |      | 70-130         | %REC  | 1                   | 7/9/2010 02:58 PM  |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 11:36 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 11:36 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 11:36 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/1/2010 11:36 PM  |
| Surr: 4-Bromofluorobenzene     | 91.3   |      | 75-131         | %REC  | 1                   | 7/1/2010 11:36 PM  |
| Surr: Trifluorotoluene         | 91.0   |      | 73-130         | %REC  | 1                   | 7/1/2010 11:36 PM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: JBA       |
| Chloride                       | 33.4   |      | 4.97           | mg/Kg | 1                   | 7/11/2010 02:05 AM |
| Surr: Selenate (surr)          | 90.7   |      | 85-115         | %REC  | 1                   | 7/11/2010 02:05 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-9 10'

Lab ID: 1007008-12

Collection Date: 6/26/2010 01:05 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|---------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: <b>RPM</b> |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/10/2010 06:13 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/10/2010 06:13 PM  |
| Surr: 2-Fluorobiphenyl         | 70.8   |      | 70-130         | %REC  | 1                   | 7/10/2010 06:13 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/9/2010 03:22 PM   |
| Surr: 4-Bromofluorobenzene     | 111    |      | 70-130         | %REC  | 1                   | 7/9/2010 03:22 PM   |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 11:56 PM   |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 11:56 PM   |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/1/2010 11:56 PM   |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/1/2010 11:56 PM   |
| Surr: 4-Bromofluorobenzene     | 90.1   |      | 75-131         | %REC  | 1                   | 7/1/2010 11:56 PM   |
| Surr: Trifluorotoluene         | 90.4   |      | 73-130         | %REC  | 1                   | 7/1/2010 11:56 PM   |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: <b>JBA</b> |
| Chloride                       | ND     |      | 4.99           | mg/Kg | 1                   | 7/11/2010 02:26 AM  |
| Surr: Selenate (surr)          | 89.1   |      | 85-115         | %REC  | 1                   | 7/11/2010 02:26 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company  
Project: Lea Refining Soil Borings  
Sample ID: WSB-9 20'  
Collection Date: 6/26/2010 01:15 PM

Work Order: 1007008  
Lab ID: 1007008-13  
Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/10/2010 06:33 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/10/2010 06:33 PM |
| Surr: 2-Fluorobiphenyl         | 75.5   |      | 70-130         | %REC  | 1                   | 7/10/2010 06:33 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/8/2010 11:41 PM  |
| Surr: 4-Bromofluorobenzene     | 108    |      | 70-130         | %REC  | 1                   | 7/8/2010 11:41 PM  |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 12:56 AM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 12:56 AM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 12:56 AM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 12:56 AM  |
| Surr: 4-Bromofluorobenzene     | 93.2   |      | 75-131         | %REC  | 1                   | 7/2/2010 12:56 AM  |
| Surr: Trifluorotoluene         | 92.8   |      | 73-130         | %REC  | 1                   | 7/2/2010 12:56 AM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: JBA       |
| Chloride                       | 71.2   |      | 4.98           | mg/Kg | 1                   | 7/11/2010 02:48 AM |
| Surr: Selenate (surr)          | 91.5   |      | 85-115         | %REC  | 1                   | 7/11/2010 02:48 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-9 30'

Lab ID: 1007008-14

Collection Date: 6/26/2010 01:20 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/10/2010 05:15 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/10/2010 05:15 PM |
| Surr: 2-Fluorobiphenyl         | 74.6   |      | 70-130         | %REC  | 1                   | 7/10/2010 05:15 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/9/2010 12:04 AM  |
| Surr: 4-Bromofluorobenzene     | 112    |      | 70-130         | %REC  | 1                   | 7/9/2010 12:04 AM  |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 01:16 AM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 01:16 AM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 01:16 AM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 01:16 AM  |
| Surr: 4-Bromofluorobenzene     | 90.7   |      | 75-131         | %REC  | 1                   | 7/2/2010 01:16 AM  |
| Surr: Trifluorotoluene         | 89.6   |      | 73-130         | %REC  | 1                   | 7/2/2010 01:16 AM  |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: JBA       |
| Chloride                       | ND     |      | 4.75           | mg/Kg | 1                   | 7/11/2010 03:53 AM |
| Surr: Selenate (surr)          | 91.3   |      | 85-115         | %REC  | 1                   | 7/11/2010 03:53 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-9 40'

Collection Date: 6/26/2010 01:25 PM

Work Order: 1007008

Lab ID: 1007008-15

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|--------------|--------------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                     |                    |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Motor Oil Range)          | ND     |      |              | 3.4 mg/Kg    | 1                   | 7/10/2010 05:35 PM |
| Surr: 2-Fluorobiphenyl         | 70.1   |      | 70-130       | %REC         | 1                   | 7/10/2010 05:35 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                     |                    |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1                   | Analyst: KKP       |
| Surr: 4-Bromofluorobenzene     | 108    |      | 70-130       | %REC         | 1                   | 7/9/2010 12:28 AM  |
| <b>BTEX</b>                    |        |      |              |              |                     |                    |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1                   | Analyst: KKP       |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1                   | 7/2/2010 01:36 AM  |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1                   | 7/2/2010 01:36 AM  |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1                   | 7/2/2010 01:36 AM  |
| Surr: 4-Bromofluorobenzene     | 92.5   |      | 75-131       | %REC         | 1                   | 7/2/2010 01:36 AM  |
| Surr: Trifluorotoluene         | 90.1   |      | 73-130       | %REC         | 1                   | 7/2/2010 01:36 AM  |
| <b>ANIONS</b>                  |        |      |              |              |                     |                    |
| Chloride                       | 71.2   |      | E300         | 5.00 mg/Kg   | Prep Date: 7/8/2010 | Analyst: JBA       |
| Surr: Selenate (surr)          | 93.7   |      | 85-115       | %REC         | 1                   | 7/11/2010 04:15 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

**Client:** Navajo Refining Company  
**Project:** Lea Refining Soil Borings  
**Sample ID:** WSB-9 50'  
**Collection Date:** 6/26/2010 01:35 PM

**Work Order:** 1007008  
**Lab ID:** 1007008-16  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 07:35 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 07:35 AM |
| Surr: 2-Fluorobiphenyl         | 80.6   |      | 70-130         | %REC  | 1                   | 7/15/2010 07:35 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/9/2010 12:51 AM  |
| Surr: 4-Bromofluorobenzene     | 111    |      | 70-130         | %REC  | 1                   | 7/9/2010 12:51 AM  |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 01:56 AM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 01:56 AM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 01:56 AM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 01:56 AM  |
| Surr: 4-Bromofluorobenzene     | 98.2   |      | 75-131         | %REC  | 1                   | 7/2/2010 01:56 AM  |
| Surr: Trifluorotoluene         | 91.0   |      | 73-130         | %REC  | 1                   | 7/2/2010 01:56 AM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: JBA       |
| Chloride                       | 15.4   |      | 4.80           | mg/Kg | 1                   | 7/11/2010 04:37 AM |
| Surr: Selenate (surr)          | 91.7   |      | 85-115         | %REC  | 1                   | 7/11/2010 04:37 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-9 60'

Lab ID: 1007008-17

Collection Date: 6/26/2010 01:40 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|---------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: <b>RPM</b> |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 07:55 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 07:55 AM  |
| Surr: 2-Fluorobiphenyl         | 85.9   |      | 70-130         | %REC  | 1                   | 7/15/2010 07:55 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/9/2010 01:14 AM   |
| Surr: 4-Bromofluorobenzene     | 113    |      | 70-130         | %REC  | 1                   | 7/9/2010 01:14 AM   |
| <b>BTEX</b>                    |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:16 AM   |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:16 AM   |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:16 AM   |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 02:16 AM   |
| Surr: 4-Bromofluorobenzene     | 92.1   |      | 75-131         | %REC  | 1                   | 7/2/2010 02:16 AM   |
| Surr: Trifluorotoluene         | 89.6   |      | 73-130         | %REC  | 1                   | 7/2/2010 02:16 AM   |
| <b>ANIONS</b>                  |        |      |                |       |                     |                     |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: <b>JBA</b> |
| Chloride                       | 69.1   |      | 4.94           | mg/Kg | 1                   | 7/11/2010 04:58 AM  |
| Surr: Selenate (surr)          | 90.3   |      | 85-115         | %REC  | 1                   | 7/11/2010 04:58 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-9 70'

Lab ID: 1007008-18

Collection Date: 6/26/2010 01:45 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|--------------|--------------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                     |                    |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | Prep Date: 7/1/2010 | Analyst: RPM       |
|                                |        |      |              |              | 1                   | 7/10/2010 06:33 PM |
| TPH (Motor Oil Range)          | 3.6    |      | 3.4 mg/Kg    |              | 1                   | 7/10/2010 06:33 PM |
| Surr: 2-Fluorobiphenyl         | 78.4   |      | 70-130 %REC  |              | 1                   | 7/10/2010 06:33 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                     |                    |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1                   | Analyst: KKP       |
|                                |        |      |              |              | 1                   | 7/9/2010 01:37 AM  |
| Surr: 4-Bromofluorobenzene     | 114    |      | 70-130 %REC  |              | 1                   | 7/9/2010 01:37 AM  |
| <b>BTEX</b>                    |        |      |              |              |                     |                    |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1                   | Analyst: KKP       |
|                                |        |      |              |              | 1                   | 7/2/2010 02:36 AM  |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1                   | 7/2/2010 02:36 AM  |
|                                |        |      |              |              | 1                   | 7/2/2010 02:36 AM  |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1                   | 7/2/2010 02:36 AM  |
|                                |        |      |              |              | 1                   | 7/2/2010 02:36 AM  |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1                   | 7/2/2010 02:36 AM  |
|                                |        |      |              |              | 1                   | 7/2/2010 02:36 AM  |
| Surr: 4-Bromofluorobenzene     | 94.1   |      | 75-131 %REC  |              | 1                   | 7/2/2010 02:36 AM  |
| Surr: Trifluorotoluene         | 90.6   |      | 73-130 %REC  |              | 1                   | 7/2/2010 02:36 AM  |
| <b>ANIONS</b>                  |        |      |              |              |                     |                    |
| Chloride                       | 99.3   |      | E300         | 4.79 mg/Kg   | Prep Date: 7/8/2010 | Analyst: JBA       |
|                                |        |      |              |              | 1                   | 7/11/2010 05:20 AM |
| Surr: Selenate (surr)          | 92.4   |      | 85-115 %REC  |              | 1                   | 7/11/2010 05:20 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-9 80'

Lab ID: 1007008-19

Collection Date: 6/26/2010 01:55 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|---------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: <b>RPM</b> |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 08:14 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 08:14 AM  |
| Surr: 2-Fluorobiphenyl         | 101    |      | 70-130         | %REC  | 1                   | 7/15/2010 08:14 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/9/2010 09:32 PM   |
| Surr: 4-Bromofluorobenzene     | 101    |      | 70-130         | %REC  | 1                   | 7/9/2010 09:32 PM   |
| <b>BTEX</b>                    |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:56 AM   |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:56 AM   |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:56 AM   |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 02:56 AM   |
| Surr: 4-Bromofluorobenzene     | 93.4   |      | 75-131         | %REC  | 1                   | 7/2/2010 02:56 AM   |
| Surr: Trifluorotoluene         | 90.0   |      | 73-130         | %REC  | 1                   | 7/2/2010 02:56 AM   |
| <b>ANIONS</b>                  |        |      |                |       |                     |                     |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/8/2010 | Analyst: <b>JBA</b> |
| Chloride                       | 9.84   |      | 4.85           | mg/Kg | 1                   | 7/11/2010 05:42 AM  |
| Surr: Selenate (surr)          | 91.2   |      | 85-115         | %REC  | 1                   | 7/11/2010 05:42 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-9 90'

Lab ID: 1007008-20

Collection Date: 6/26/2010 02:00 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 08:33 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 08:33 AM |
| Surr: 2-Fluorobiphenyl         | 82.1   |      | 70-130         | %REC  | 1                   | 7/15/2010 08:33 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/9/2010 09:55 PM  |
| Surr: 4-Bromofluorobenzene     | 98.3   |      | 70-130         | %REC  | 1                   | 7/9/2010 09:55 PM  |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 03:16 AM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 03:16 AM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 03:16 AM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 03:16 AM  |
| Surr: 4-Bromofluorobenzene     | 94.3   |      | 75-131         | %REC  | 1                   | 7/2/2010 03:16 AM  |
| Surr: Trifluorotoluene         | 90.6   |      | 73-130         | %REC  | 1                   | 7/2/2010 03:16 AM  |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: DM        |
| Chloride                       | 9.56   |      | 4.97           | mg/Kg | 1                   | 7/12/2010 11:50 AM |
| Surr: Selenate (surr)          | 95.9   |      | 85-115         | %REC  | 1                   | 7/12/2010 11:50 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-9 100'

Collection Date: 6/28/2010 02:05 PM

Work Order: 1007008

Lab ID: 1007008-21

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 05:00 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 05:00 AM |
| Surr: 2-Fluorobiphenyl         | 77.1   |      | 70-130         | %REC  | 1                   | 7/15/2010 05:00 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/9/2010 10:19 PM  |
| Surr: 4-Bromofluorobenzene     | 96.3   |      | 70-130         | %REC  | 1                   | 7/9/2010 10:19 PM  |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 04:57 AM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 04:57 AM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 04:57 AM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 04:57 AM  |
| Surr: 4-Bromofluorobenzene     | 89.4   |      | 75-131         | %REC  | 1                   | 7/2/2010 04:57 AM  |
| Surr: Trifluorotoluene         | 89.9   |      | 73-130         | %REC  | 1                   | 7/2/2010 04:57 AM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 4.95           | mg/Kg | 1                   | 7/12/2010 12:04 PM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                   | 7/12/2010 12:04 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-9 110'

Lab ID: 1007008-22

Collection Date: 6/28/2010 02:10 PM

Matrix: SOIL

| Analyses                       | Result     | Qual | Report Limit   | Units        | Dilution Factor     | Date Analyzed      |
|--------------------------------|------------|------|----------------|--------------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |            |      | <b>SW8015M</b> |              | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND         |      | 1.7            | mg/Kg        | 1                   | 7/15/2010 06:28 PM |
| <b>TPH (Motor Oil Range)</b>   | <b>7.7</b> |      | <b>3.4</b>     | <b>mg/Kg</b> | 1                   | 7/15/2010 06:28 PM |
| Surr: 2-Fluorobiphenyl         | 80.9       |      | 70-130         | %REC         | 1                   | 7/15/2010 06:28 PM |
| <b>GASOLINE RANGE ORGANICS</b> |            |      | <b>SW8015</b>  |              |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND         |      | 0.050          | mg/Kg        | 1                   | 7/9/2010 10:42 PM  |
| Surr: 4-Bromofluorobenzene     | 96.2       |      | 70-130         | %REC         | 1                   | 7/9/2010 10:42 PM  |
| <b>BTEX</b>                    |            |      | <b>SW8021B</b> |              |                     | Analyst: KKP       |
| Benzene                        | ND         |      | 0.0010         | mg/Kg        | 1                   | 7/2/2010 05:17 AM  |
| Toluene                        | ND         |      | 0.0010         | mg/Kg        | 1                   | 7/2/2010 05:17 AM  |
| Ethylbenzene                   | ND         |      | 0.0010         | mg/Kg        | 1                   | 7/2/2010 05:17 AM  |
| Xylenes, Total                 | ND         |      | 0.0030         | mg/Kg        | 1                   | 7/2/2010 05:17 AM  |
| Surr: 4-Bromofluorobenzene     | 88.2       |      | 75-131         | %REC         | 1                   | 7/2/2010 05:17 AM  |
| Surr: Trifluorotoluene         | 89.0       |      | 73-130         | %REC         | 1                   | 7/2/2010 05:17 AM  |
| <b>ANIONS</b>                  |            |      | <b>E300</b>    |              | Prep Date: 7/9/2010 | Analyst: DM        |
| Chloride                       | 29.2       |      | 4.84           | mg/Kg        | 1                   | 7/12/2010 12:19 PM |
| Surr: Selenate (surr)          | 104        |      | 85-115         | %REC         | 1                   | 7/12/2010 12:19 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 19-Jul-10

**Client:** Navajo Refining Company  
**Project:** Lea Refining Soil Borings  
**Sample ID:** WSB-11 10'  
**Collection Date:** 6/28/2010 09:10 AM

**Work Order:** 1007008  
**Lab ID:** 1007008-23  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|---------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: <b>RPM</b> |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 05:20 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 05:20 AM  |
| Surr: 2-Fluorobiphenyl         | 94.9   |      | 70-130         | %REC  | 1                   | 7/15/2010 05:20 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/9/2010 11:06 PM   |
| Surr: 4-Bromofluorobenzene     | 94.4   |      | 70-130         | %REC  | 1                   | 7/9/2010 11:06 PM   |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 05:36 AM   |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 05:36 AM   |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 05:36 AM   |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 05:36 AM   |
| Surr: 4-Bromofluorobenzene     | 91.2   |      | 75-131         | %REC  | 1                   | 7/2/2010 05:36 AM   |
| Surr: Trifluorotoluene         | 90.0   |      | 73-130         | %REC  | 1                   | 7/2/2010 05:36 AM   |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: <b>DM</b>  |
| Chloride                       | 20.5   |      | 4.93           | mg/Kg | 1                   | 7/12/2010 12:33 PM  |
| Surr: Selenate (surr)          | 94.4   |      | 85-115         | %REC  | 1                   | 7/12/2010 12:33 PM  |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-11 20'

Lab ID: 1007008-24

Collection Date: 6/28/2010 09:25 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|--------------|--------------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                     |                    |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Motor Oil Range)          | ND     |      |              | 3.4 mg/Kg    | 1                   | 7/15/2010 05:39 AM |
| Surr: 2-Fluorobiphenyl         | 74.5   |      | 70-130       | %REC         | 1                   | 7/15/2010 05:39 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                     |                    |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1                   | Analyst: KKP       |
| Surr: 4-Bromofluorobenzene     | 93.6   |      | 70-130       | %REC         | 1                   | 7/9/2010 11:30 PM  |
| <b>BTEX</b>                    |        |      |              |              |                     |                    |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1                   | Analyst: KKP       |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1                   | 7/2/2010 05:56 AM  |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1                   | 7/2/2010 05:56 AM  |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1                   | 7/2/2010 05:56 AM  |
| Surr: 4-Bromofluorobenzene     | 92.2   |      | 75-131       | %REC         | 1                   | 7/2/2010 05:56 AM  |
| Surr: Trifluorotoluene         | 89.4   |      | 73-130       | %REC         | 1                   | 7/2/2010 05:56 AM  |
| <b>ANIONS</b>                  |        |      |              |              |                     |                    |
| Chloride                       | 12.7   |      | E300         | 4.99 mg/Kg   | Prep Date: 7/9/2010 | Analyst: DM        |
| Surr: Selenate (surr)          | 100    |      | 85-115       | %REC         | 1                   | 7/12/2010 02:01 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-11 30'

Collection Date: 6/28/2010 09:50 AM

Work Order: 1007008

Lab ID: 1007008-25

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 05:58 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 05:58 AM |
| Surr: 2-Fluorobiphenyl         | 70.4   |      | 70-130         | %REC  | 1                   | 7/15/2010 05:58 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 12:39 AM |
| Surr: 4-Bromofluorobenzene     | 93.8   |      | 70-130         | %REC  | 1                   | 7/10/2010 12:39 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 06:16 AM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 06:16 AM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 06:16 AM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 06:16 AM  |
| Surr: 4-Bromofluorobenzene     | 90.2   |      | 75-131         | %REC  | 1                   | 7/2/2010 06:16 AM  |
| Surr: Trifluorotoluene         | 90.2   |      | 73-130         | %REC  | 1                   | 7/2/2010 06:16 AM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: DM        |
| Chloride                       | 17.2   |      | 5.00           | mg/Kg | 1                   | 7/12/2010 02:15 PM |
| Surr: Selenate (surr)          | 95.5   |      | 85-115         | %REC  | 1                   | 7/12/2010 02:15 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-11 40'

Lab ID: 1007008-26

Collection Date: 6/28/2010 10:00 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 06:18 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 06:18 AM |
| Surr: 2-Fluorobiphenyl         | 81.3   |      | 70-130         | %REC  | 1                   | 7/15/2010 06:18 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 01:03 AM |
| Surr: 4-Bromofluorobenzene     | 93.9   |      | 70-130         | %REC  | 1                   | 7/10/2010 01:03 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 06:36 AM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 06:36 AM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 06:36 AM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 06:36 AM  |
| Surr: 4-Bromofluorobenzene     | 95.1   |      | 75-131         | %REC  | 1                   | 7/2/2010 06:36 AM  |
| Surr: Trifluorotoluene         | 92.5   |      | 73-130         | %REC  | 1                   | 7/2/2010 06:36 AM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: DM        |
| Chloride                       | 30.1   |      | 4.99           | mg/Kg | 1                   | 7/12/2010 02:30 PM |
| Surr: Selenate (surr)          | 95.4   |      | 85-115         | %REC  | 1                   | 7/12/2010 02:30 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-11 50'

Collection Date: 6/28/2010 10:10 AM

Work Order: 1007008

Lab ID: 1007008-27

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 06:37 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 06:37 AM |
| Surr: 2-Fluorobiphenyl         | 63.5   | S    | 70-130         | %REC  | 1                   | 7/15/2010 06:37 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 01:26 AM |
| Surr: 4-Bromofluorobenzene     | 96.6   |      | 70-130         | %REC  | 1                   | 7/10/2010 01:26 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 06:56 AM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 06:56 AM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 06:56 AM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 06:56 AM  |
| Surr: 4-Bromofluorobenzene     | 97.4   |      | 75-131         | %REC  | 1                   | 7/2/2010 06:56 AM  |
| Surr: Trifluorotoluene         | 90.7   |      | 73-130         | %REC  | 1                   | 7/2/2010 06:56 AM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: DM        |
| Chloride                       | 46.6   |      | 4.87           | mg/Kg | 1                   | 7/12/2010 02:44 PM |
| Surr: Selenate (surr)          | 105    |      | 85-115         | %REC  | 1                   | 7/12/2010 02:44 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-11 60'

Lab ID: 1007008-28

Collection Date: 6/28/2010 10:20 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | 6.3    |      | 1.7            | mg/Kg | 1                   | 7/15/2010 06:57 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 06:57 AM |
| Surr: 2-Fluorobiphenyl         | 78.9   |      | 70-130         | %REC  | 1                   | 7/15/2010 06:57 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 01:49 AM |
| Surr: 4-Bromofluorobenzene     | 91.9   |      | 70-130         | %REC  | 1                   | 7/10/2010 01:49 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 07:57 AM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 07:57 AM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 07:57 AM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 07:57 AM  |
| Surr: 4-Bromofluorobenzene     | 90.6   |      | 75-131         | %REC  | 1                   | 7/2/2010 07:57 AM  |
| Surr: Trifluorotoluene         | 89.6   |      | 73-130         | %REC  | 1                   | 7/2/2010 07:57 AM  |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: DM        |
| Chloride                       | 30.7   |      | 4.97           | mg/Kg | 1                   | 7/12/2010 02:59 PM |
| Surr: Selenate (surr)          | 92.4   |      | 85-115         | %REC  | 1                   | 7/12/2010 02:59 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-11 70'

Lab ID: 1007008-29

Collection Date: 6/28/2010 10:25 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|---------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: <b>RPM</b> |
| TPH (Diesel Range)             | 8.7    |      | 1.7            | mg/Kg | 1                   | 7/10/2010 06:52 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/10/2010 06:52 PM  |
| Surr: 2-Fluorobiphenyl         | 72.0   |      | 70-130         | %REC  | 1                   | 7/10/2010 06:52 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 02:36 AM  |
| Surr: 4-Bromofluorobenzene     | 98.0   |      | 70-130         | %REC  | 1                   | 7/10/2010 02:36 AM  |
| <b>BTEX</b>                    |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:17 AM   |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:17 AM   |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:17 AM   |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 08:17 AM   |
| Surr: 4-Bromofluorobenzene     | 93.0   |      | 75-131         | %REC  | 1                   | 7/2/2010 08:17 AM   |
| Surr: Trifluorotoluene         | 93.8   |      | 73-130         | %REC  | 1                   | 7/2/2010 08:17 AM   |
| <b>ANIONS</b>                  |        |      |                |       |                     |                     |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: <b>DM</b>  |
| Chloride                       | 34.6   |      | 4.95           | mg/Kg | 1                   | 7/12/2010 03:13 PM  |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                   | 7/12/2010 03:13 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company  
 Project: Lea Refining Soil Borings  
 Sample ID: WSB-11 80'  
 Collection Date: 6/28/2010 10:30 AM

Work Order: 1007008  
 Lab ID: 1007008-30  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | 3.8    |      | 1.7            | mg/Kg | 1                   | 7/10/2010 07:11 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/10/2010 07:11 PM |
| Surr: 2-Fluorobiphenyl         | 75.0   |      | 70-130         | %REC  | 1                   | 7/10/2010 07:11 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 02:13 AM |
| Surr: 4-Bromofluorobenzene     | 99.2   |      | 70-130         | %REC  | 1                   | 7/10/2010 02:13 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:37 AM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:37 AM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:37 AM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 08:37 AM  |
| Surr: 4-Bromofluorobenzene     | 94.7   |      | 75-131         | %REC  | 1                   | 7/2/2010 08:37 AM  |
| Surr: Trifluorotoluene         | 91.7   |      | 73-130         | %REC  | 1                   | 7/2/2010 08:37 AM  |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: DM        |
| Chloride                       | 38.6   |      | 4.91           | mg/Kg | 1                   | 7/12/2010 03:28 PM |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                   | 7/12/2010 03:28 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-11 90'

Lab ID: 1007008-31

Collection Date: 6/28/2010 10:40 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | 15     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 07:16 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 07:16 AM |
| Surr: 2-Fluorobiphenyl         | 84.0   |      | 70-130         | %REC  | 1                   | 7/15/2010 07:16 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | 0.68   |      | 0.050          | mg/Kg | 1                   | 7/10/2010 07:38 AM |
| Surr: 4-Bromofluorobenzene     | 121    |      | 70-130         | %REC  | 1                   | 7/10/2010 07:38 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 09:17 AM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 09:17 AM  |
| Ethylbenzene                   | 0.013  |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 09:17 AM  |
| Xylenes, Total                 | 0.030  |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 09:17 AM  |
| Surr: 4-Bromofluorobenzene     | 94.1   |      | 75-131         | %REC  | 1                   | 7/2/2010 09:17 AM  |
| Surr: Trifluorotoluene         | 84.9   |      | 73-130         | %REC  | 1                   | 7/2/2010 09:17 AM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: DM        |
| Chloride                       | 22.0   |      | 5.00           | mg/Kg | 1                   | 7/12/2010 03:42 PM |
| Surr: Selenate (surr)          | 93.1   |      | 85-115         | %REC  | 1                   | 7/12/2010 03:42 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-11 100'

Lab ID: 1007008-32

Collection Date: 6/28/2010 10:45 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|---------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: <b>RPM</b> |
| TPH (Diesel Range)             | 3.8    |      | 1.7            | mg/Kg | 1                   | 7/15/2010 07:35 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 07:35 AM  |
| Surr: 2-Fluorobiphenyl         | 80.2   |      | 70-130         | %REC  | 1                   | 7/15/2010 07:35 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 04:56 AM  |
| Surr: 4-Bromofluorobenzene     | 89.3   |      | 70-130         | %REC  | 1                   | 7/10/2010 04:56 AM  |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 03:17 PM   |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 03:17 PM   |
| Ethylbenzene                   | 0.019  |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 03:17 PM   |
| Xylenes, Total                 | 0.011  |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 03:17 PM   |
| Surr: 4-Bromofluorobenzene     | 122    |      | 75-131         | %REC  | 1                   | 7/2/2010 03:17 PM   |
| Surr: Trifluorotoluene         | 82.5   |      | 73-130         | %REC  | 1                   | 7/2/2010 03:17 PM   |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: <b>DM</b>  |
| Chloride                       | 16.9   |      | 5.00           | mg/Kg | 1                   | 7/12/2010 03:57 PM  |
| Surr: Selenate (surr)          | 105    |      | 85-115         | %REC  | 1                   | 7/12/2010 03:57 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company  
Project: Lea Refining Soil Borings  
Sample ID: WSB-11 110'  
Collection Date: 6/28/2010 11:00 AM

Work Order: 1007008  
Lab ID: 1007008-33  
Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|---------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: <b>RPM</b> |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/10/2010 08:09 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/10/2010 08:09 PM  |
| Surr: 2-Fluorobiphenyl         | 70.1   |      | 70-130         | %REC  | 1                   | 7/10/2010 08:09 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 05:19 AM  |
| Surr: 4-Bromofluorobenzene     | 93.7   |      | 70-130         | %REC  | 1                   | 7/10/2010 05:19 AM  |
| <b>BTEX</b>                    |        |      |                |       |                     |                     |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 01:37 PM   |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 01:37 PM   |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 01:37 PM   |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 01:37 PM   |
| Surr: 4-Bromofluorobenzene     | 82.4   |      | 75-131         | %REC  | 1                   | 7/2/2010 01:37 PM   |
| Surr: Trifluorotoluene         | 80.1   |      | 73-130         | %REC  | 1                   | 7/2/2010 01:37 PM   |
| <b>ANIONS</b>                  |        |      |                |       |                     |                     |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: <b>DM</b>  |
| Chloride                       | 5.20   |      | 5.00           | mg/Kg | 1                   | 7/12/2010 04:11 PM  |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                   | 7/12/2010 04:11 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-10 10'

Lab ID: 1007008-34

Collection Date: 6/28/2010 01:00 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 07:55 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 07:55 AM |
| Surr: 2-Fluorobiphenyl         | 78.2   |      | 70-130         | %REC  | 1                   | 7/15/2010 07:55 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 05:42 AM |
| Surr: 4-Bromofluorobenzene     | 97.4   |      | 70-130         | %REC  | 1                   | 7/10/2010 05:42 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 01:57 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 01:57 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 01:57 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 01:57 PM  |
| Surr: 4-Bromofluorobenzene     | 90.2   |      | 75-131         | %REC  | 1                   | 7/2/2010 01:57 PM  |
| Surr: Trifluorotoluene         | 84.5   |      | 73-130         | %REC  | 1                   | 7/2/2010 01:57 PM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: DM        |
| Chloride                       | 20.3   |      | 4.95           | mg/Kg | 1                   | 7/12/2010 04:55 PM |
| Surr: Selenate (surr)          | 99.9   |      | 85-115         | %REC  | 1                   | 7/12/2010 04:55 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-10 20'

Lab ID: 1007008-35

Collection Date: 6/28/2010 01:10 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | 2.9    |      | 1.7            | mg/Kg | 1                   | 7/15/2010 08:14 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 08:14 AM |
| Surr: 2-Fluorobiphenyl         | 74.9   |      | 70-130         | %REC  | 1                   | 7/15/2010 08:14 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 06:05 AM |
| Surr: 4-Bromofluorobenzene     | 99.7   |      | 70-130         | %REC  | 1                   | 7/10/2010 06:05 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:17 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:17 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:17 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 02:17 PM  |
| Surr: 4-Bromofluorobenzene     | 90.5   |      | 75-131         | %REC  | 1                   | 7/2/2010 02:17 PM  |
| Surr: Trifluorotoluene         | 84.9   |      | 73-130         | %REC  | 1                   | 7/2/2010 02:17 PM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: DM        |
| Chloride                       | 43.4   |      | 5.00           | mg/Kg | 1                   | 7/12/2010 05:10 PM |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                   | 7/12/2010 05:10 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: WSB-10 30'

Collection Date: 6/28/2010 01:55 PM

Work Order: 1007008

Lab ID: 1007008-36

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 08:33 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 08:33 AM |
| Surr: 2-Fluorobiphenyl         | 78.1   |      | 70-130         | %REC  | 1                   | 7/15/2010 08:33 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 06:28 AM |
| Surr: 4-Bromofluorobenzene     | 99.4   |      | 70-130         | %REC  | 1                   | 7/10/2010 06:28 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:37 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:37 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:37 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 02:37 PM  |
| Surr: 4-Bromofluorobenzene     | 85.6   |      | 75-131         | %REC  | 1                   | 7/2/2010 02:37 PM  |
| Surr: Trifluorotoluene         | 82.4   |      | 73-130         | %REC  | 1                   | 7/2/2010 02:37 PM  |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: DM        |
| Chloride                       | 34.0   |      | 4.92           | mg/Kg | 1                   | 7/12/2010 05:24 PM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                   | 7/12/2010 05:24 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-10 40'

Lab ID: 1007008-37

Collection Date: 6/28/2010 02:05 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|---------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: <b>RPM</b> |
| TPH (Diesel Range)             | 2.2    |      | 1.7            | mg/Kg | 1                   | 7/10/2010 09:07 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/10/2010 09:07 PM  |
| Surr: 2-Fluorobiphenyl         | 70.1   |      | 70-130         | %REC  | 1                   | 7/10/2010 09:07 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 06:52 AM  |
| Surr: 4-Bromofluorobenzene     | 101    |      | 70-130         | %REC  | 1                   | 7/10/2010 06:52 AM  |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:57 PM   |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:57 PM   |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 02:57 PM   |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 02:57 PM   |
| Surr: 4-Bromofluorobenzene     | 86.1   |      | 75-131         | %REC  | 1                   | 7/2/2010 02:57 PM   |
| Surr: Trifluorotoluene         | 84.6   |      | 73-130         | %REC  | 1                   | 7/2/2010 02:57 PM   |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: <b>DM</b>  |
| Chloride                       | 116    |      | 4.99           | mg/Kg | 1                   | 7/12/2010 05:39 PM  |
| Surr: Selenate (surr)          | 107    |      | 85-115         | %REC  | 1                   | 7/12/2010 05:39 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-10 50'

Lab ID: 1007008-38

Collection Date: 6/28/2010 02:15 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | 2.4    |      | 1.7            | mg/Kg | 1                   | 7/15/2010 09:32 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 09:32 AM |
| Surr: 2-Fluorobiphenyl         | 77.0   |      | 70-130         | %REC  | 1                   | 7/15/2010 09:32 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 07:15 AM |
| Surr: 4-Bromofluorobenzene     | 98.2   |      | 70-130         | %REC  | 1                   | 7/10/2010 07:15 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 06:42 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 06:42 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 06:42 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 06:42 PM  |
| Surr: 4-Bromofluorobenzene     | 86.5   |      | 75-131         | %REC  | 1                   | 7/2/2010 06:42 PM  |
| Surr: Trifluorotoluene         | 89.5   |      | 73-130         | %REC  | 1                   | 7/2/2010 06:42 PM  |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: DM        |
| Chloride                       | 47.7   |      | 4.99           | mg/Kg | 1                   | 7/12/2010 05:53 PM |
| Surr: Selenate (surr)          | 100    |      | 85-115         | %REC  | 1                   | 7/12/2010 05:53 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-10 60'

Lab ID: 1007008-39

Collection Date: 6/28/2010 02:25 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 09:51 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 09:51 AM |
| Surr: 2-Fluorobiphenyl         | 76.3   |      | 70-130         | %REC  | 1                   | 7/15/2010 09:51 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 08:48 AM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 70-130         | %REC  | 1                   | 7/10/2010 08:48 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 05:52 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 05:52 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 05:52 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 05:52 PM  |
| Surr: 4-Bromofluorobenzene     | 90.2   |      | 75-131         | %REC  | 1                   | 7/2/2010 05:52 PM  |
| Surr: Trifluorotoluene         | 86.1   |      | 73-130         | %REC  | 1                   | 7/2/2010 05:52 PM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: DM        |
| Chloride                       | 78.1   |      | 4.97           | mg/Kg | 1                   | 7/12/2010 06:08 PM |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                   | 7/12/2010 06:08 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-10 70'

Lab ID: 1007008-40

Collection Date: 6/28/2010 02:35 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 10:10 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 10:10 AM |
| Surr: 2-Fluorobiphenyl         | 87.2   |      | 70-130         | %REC  | 1                   | 7/15/2010 10:10 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 09:11 AM |
| Surr: 4-Bromofluorobenzene     | 99.0   |      | 70-130         | %REC  | 1                   | 7/10/2010 09:11 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 07:02 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 07:02 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 07:02 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 07:02 PM  |
| Surr: 4-Bromofluorobenzene     | 91.0   |      | 75-131         | %REC  | 1                   | 7/2/2010 07:02 PM  |
| Surr: Trifluorotoluene         | 89.2   |      | 73-130         | %REC  | 1                   | 7/2/2010 07:02 PM  |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: IGF       |
| Chloride                       | 58.2   |      | 5.00           | mg/Kg | 1                   | 7/12/2010 08:04 PM |
| Surr: Selenate (surr)          | 98.1   |      | 85-115         | %REC  | 1                   | 7/12/2010 08:04 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company  
 Project: Lea Refining Soil Borings  
 Sample ID: WSB-10 80'  
 Collection Date: 6/28/2010 02:40 PM

Work Order: 1007008  
 Lab ID: 1007008-41  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/9/2010 06:43 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/9/2010 06:43 PM  |
| Surr: 2-Fluorobiphenyl         | 86.5   |      | 70-130         | %REC  | 1                   | 7/9/2010 06:43 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 09:34 AM |
| Surr: 4-Bromofluorobenzene     | 98.2   |      | 70-130         | %REC  | 1                   | 7/10/2010 09:34 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 07:22 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 07:22 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 07:22 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 07:22 PM  |
| Surr: 4-Bromofluorobenzene     | 89.7   |      | 75-131         | %REC  | 1                   | 7/2/2010 07:22 PM  |
| Surr: Trifluorotoluene         | 89.3   |      | 73-130         | %REC  | 1                   | 7/2/2010 07:22 PM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: IGF       |
| Chloride                       | 61.0   |      | 4.99           | mg/Kg | 1                   | 7/12/2010 08:19 PM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                   | 7/12/2010 08:19 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

**Client:** Navajo Refining Company  
**Project:** Lea Refining Soil Borings  
**Sample ID:** WSB-10 90'  
**Collection Date:** 6/28/2010 02:50 PM

**Work Order:** 1007008  
**Lab ID:** 1007008-42  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 09:32 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 09:32 AM |
| Surr: 2-Fluorobiphenyl         | 78.5   |      | 70-130         | %REC  | 1                   | 7/15/2010 09:32 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 09:57 AM |
| Surr: 4-Bromofluorobenzene     | 99.3   |      | 70-130         | %REC  | 1                   | 7/10/2010 09:57 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:38 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:38 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:38 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 08:38 PM  |
| Surr: 4-Bromofluorobenzene     | 89.1   |      | 75-131         | %REC  | 1                   | 7/2/2010 08:38 PM  |
| Surr: Trifluorotoluene         | 88.2   |      | 73-130         | %REC  | 1                   | 7/2/2010 08:38 PM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: IGF       |
| Chloride                       | 57.5   |      | 4.99           | mg/Kg | 1                   | 7/12/2010 09:17 PM |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                   | 7/12/2010 09:17 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-10 100'

Lab ID: 1007008-43

Collection Date: 6/28/2010 03:00 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/15/2010 09:51 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/15/2010 09:51 AM |
| Surr: 2-Fluorobiphenyl         | 95.7   |      | 70-130         | %REC  | 1                   | 7/15/2010 09:51 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 10:21 AM |
| Surr: 4-Bromofluorobenzene     | 92.2   |      | 70-130         | %REC  | 1                   | 7/10/2010 10:21 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:58 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:58 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 08:58 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 08:58 PM  |
| Surr: 4-Bromofluorobenzene     | 87.4   |      | 75-131         | %REC  | 1                   | 7/2/2010 08:58 PM  |
| Surr: Trifluorotoluene         | 85.5   |      | 73-130         | %REC  | 1                   | 7/2/2010 08:58 PM  |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: IGF       |
| Chloride                       | 77.4   |      | 4.99           | mg/Kg | 1                   | 7/12/2010 09:31 PM |
| Surr: Selenate (surr)          | 100    |      | 85-115         | %REC  | 1                   | 7/12/2010 09:31 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: WSB-10 110'

Lab ID: 1007008-44

Collection Date: 6/28/2010 03:05 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 7/1/2010 | Analyst: RPM       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 7/9/2010 08:58 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 7/9/2010 08:58 PM  |
| Surr: 2-Fluorobiphenyl         | 76.7   |      | 70-130         | %REC  | 1                   | 7/9/2010 08:58 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 7/10/2010 10:44 AM |
| Surr: 4-Bromofluorobenzene     | 92.7   |      | 70-130         | %REC  | 1                   | 7/10/2010 10:44 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 09:18 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 09:18 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 7/2/2010 09:18 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 7/2/2010 09:18 PM  |
| Surr: 4-Bromofluorobenzene     | 84.5   |      | 75-131         | %REC  | 1                   | 7/2/2010 09:18 PM  |
| Surr: Trifluorotoluene         | 83.4   |      | 73-130         | %REC  | 1                   | 7/2/2010 09:18 PM  |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 7/9/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 5.00           | mg/Kg | 1                   | 7/12/2010 09:46 PM |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                   | 7/12/2010 09:46 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Sample ID: Trip Blank 061410-36

Collection Date: 6/28/2010

Work Order: 1007008

Lab ID: 1007008-45

Matrix: WATER

| Analyses                   | Result | Qual | Report<br>Limit | Units | Dilution<br>Factor | Date Analyzed     |
|----------------------------|--------|------|-----------------|-------|--------------------|-------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b>  |       |                    | Analyst: KKP      |
| Benzene                    | ND     |      | 0.0010          | mg/L  | 1                  | 7/3/2010 03:38 PM |
| Toluene                    | ND     |      | 0.0010          | mg/L  | 1                  | 7/3/2010 03:38 PM |
| Ethylbenzene               | ND     |      | 0.0010          | mg/L  | 1                  | 7/3/2010 03:38 PM |
| Xylenes, Total             | ND     |      | 0.0030          | mg/L  | 1                  | 7/3/2010 03:38 PM |
| Surr: 4-Bromofluorobenzene | 95.1   |      | 77-129          | %REC  | 1                  | 7/3/2010 03:38 PM |
| Surr: Trifluorotoluene     | 93.0   |      | 75-130          | %REC  | 1                  | 7/3/2010 03:38 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 19-Jul-10

Client: Navajo Refining Company

Project: Lea Refining Soil Borings

Work Order: 1007008

Sample ID: Trip Blank 061410-37

Lab ID: 1007008-46

Collection Date: 6/28/2010

Matrix: WATER

| Analyses                   | Result | Qual | Report<br>Limit | Units | Dilution<br>Factor | Date Analyzed     |
|----------------------------|--------|------|-----------------|-------|--------------------|-------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b>  |       |                    | Analyst: KKP      |
| Benzene                    | ND     |      | 0.0010          | mg/L  | 1                  | 7/2/2010 10:54 PM |
| Toluene                    | ND     |      | 0.0010          | mg/L  | 1                  | 7/2/2010 10:54 PM |
| Ethylbenzene               | ND     |      | 0.0010          | mg/L  | 1                  | 7/2/2010 10:54 PM |
| Xylenes, Total             | ND     |      | 0.0030          | mg/L  | 1                  | 7/2/2010 10:54 PM |
| Surr: 4-Bromofluorobenzene | 92.0   |      | 77-129          | %REC  | 1                  | 7/2/2010 10:54 PM |
| Surr: Trifluorotoluene     | 90.0   |      | 75-130          | %REC  | 1                  | 7/2/2010 10:54 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

**Client:** Navajo Refining Company  
**Work Order:** 1007008  
**Project:** Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: **44191** Instrument ID **FID-7** Method: **SW8015M**

**MBLK** Sample ID: **FBLKS2-100701-44191** Units: **mg/Kg** Analysis Date: **7/9/2010 11:52 PM**

Client ID: Run ID: **FID-7\_100701B** SeqNo: **2028525** Prep Date: **7/1/2010** DF: **1**

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 2.839  | 0.10 | 3.33    | 0             | 85.2 | 70-130        | 0             |      |           |      |

**LCS** Sample ID: **FLCSS2-100701-44191** Units: **mg/Kg** Analysis Date: **7/10/2010 01:42 PM**

Client ID: Run ID: **FID-7\_100701B** SeqNo: **2028526** Prep Date: **7/1/2010** DF: **1**

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 30     | 1.7  | 33.33   | 0             | 90   | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 27.35  | 3.4  | 33.33   | 0             | 82.1 | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.165  | 0.10 | 3.33    | 0             | 95.1 | 70-130        | 0             |      |           |      |

**MS** Sample ID: **1007008-01BMS** Units: **mg/Kg** Analysis Date: **7/10/2010 02:21 PM**

Client ID: **WSB-8 10'** Run ID: **FID-7\_100701B** SeqNo: **2028527** Prep Date: **7/1/2010** DF: **1**

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 26.72  | 1.7  | 33.32   | 0.6646        | 78.2 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 28.79  | 3.4  | 33.32   | 0             | 86.4 | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.177  | 0.10 | 3.329   | 0             | 95.4 | 70-130        | 0             |      |           |      |

**MSD** Sample ID: **1007008-01BMSD** Units: **mg/Kg** Analysis Date: **7/10/2010 02:40 PM**

Client ID: **WSB-8 10'** Run ID: **FID-7\_100701B** SeqNo: **2028528** Prep Date: **7/1/2010** DF: **1**

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 27.6   | 1.7  | 33.3    | 0.6646        | 80.9 | 70-130        | 26.72         | 3.24 | 30        |      |
| TPH (Motor Oil Range)  | 30.44  | 3.4  | 33.3    | 0             | 91.4 | 70-130        | 28.79         | 5.58 | 30        |      |
| Surr: 2-Fluorobiphenyl | 2.845  | 0.10 | 3.327   | 0             | 85.5 | 70-130        | 3.177         | 11   | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1007008-01B | 1007008-02B | 1007008-03B |
| 1007008-04B | 1007008-05B | 1007008-06B |
| 1007008-07B | 1007008-08B | 1007008-09B |
| 1007008-10B | 1007008-11B | 1007008-12B |
| 1007008-13B | 1007008-14B | 1007008-15B |
| 1007008-16B | 1007008-17B | 1007008-18B |
| 1007008-19B | 1007008-20B |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1007008  
 Project: Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: 44200 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS3-100701-44200 Units: mg/Kg Analysis Date: 7/10/2010 08:29 PM

Client ID: Run ID: FID-7\_100701C SeqNo: 2028553 Prep Date: 7/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 2.396  | 0.10 | 3.33    | 0             | 72   | 70-130        | 0             |      |           |      |

LCS Sample ID: FLCSS3-100701-44200 Units: mg/Kg Analysis Date: 7/10/2010 08:48 PM

Client ID: Run ID: FID-7\_100701C SeqNo: 2028554 Prep Date: 7/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 27.43  | 1.7  | 33.33   | 0             | 82.3 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 29.94  | 3.4  | 33.33   | 0             | 89.8 | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.033  | 0.10 | 3.33    | 0             | 91.1 | 70-130        | 0             |      |           |      |

MS Sample ID: 1007008-21BMS Units: mg/Kg Analysis Date: 7/10/2010 09:27 PM

Client ID: WSB-9 100' Run ID: FID-7\_100701C SeqNo: 2028555 Prep Date: 7/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 26.9   | 1.7  | 33.25   | 0.04326       | 80.8 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 31.36  | 3.4  | 33.25   | 0.3749        | 93.2 | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 2.503  | 0.10 | 3.322   | 0             | 75.3 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1007008-21BMSD Units: mg/Kg Analysis Date: 7/10/2010 09:46 PM

Client ID: WSB-9 100' Run ID: FID-7\_100701C SeqNo: 2028556 Prep Date: 7/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 27.46  | 1.7  | 33.32   | 0.04326       | 82.3 | 70-130        | 26.9          | 2.08 | 30        |      |
| TPH (Motor Oil Range)  | 34.15  | 3.4  | 33.32   | 0.3749        | 101  | 70-130        | 31.36         | 8.5  | 30        |      |
| Surr: 2-Fluorobiphenyl | 2.644  | 0.10 | 3.329   | 0             | 79.4 | 70-130        | 2.503         | 5.47 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1007008-21B | 1007008-22B | 1007008-23B |
| 1007008-24B | 1007008-25B | 1007008-26B |
| 1007008-27B | 1007008-28B | 1007008-29B |
| 1007008-30B | 1007008-31B | 1007008-32B |
| 1007008-33B | 1007008-34B | 1007008-35B |
| 1007008-36B | 1007008-37B | 1007008-38B |
| 1007008-39B | 1007008-40B |             |

Client: Navajo Refining Company  
 Work Order: 1007008  
 Project: Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: 44205 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS4-100701-44205 Units: mg/Kg Analysis Date: 7/9/2010 06:04 PM  
 Client ID: Run ID: FID-7\_100701D SeqNo: 2028591 Prep Date: 7/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 2.803  | 0.10 | 3.33    | 0             | 84.2 | 70-130        | 0             |      |           |      |

LCS Sample ID: FLCSS4-100701-44205 Units: mg/Kg Analysis Date: 7/9/2010 06:24 PM  
 Client ID: Run ID: FID-7\_100701D SeqNo: 2028592 Prep Date: 7/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 26.83  | 1.7  | 33.33   | 0             | 80.5 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 29.99  | 3.4  | 33.33   | 0             | 90   | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.813  | 0.10 | 3.33    | 0             | 114  | 70-130        | 0             |      |           |      |

MS Sample ID: 1007008-41BMS Units: mg/Kg Analysis Date: 7/9/2010 07:02 PM  
 Client ID: WSB-10 80' Run ID: FID-7\_100701D SeqNo: 2028594 Prep Date: 7/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 23.61  | 1.7  | 33.24   | 0.08525       | 70.8 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 28.51  | 3.4  | 33.24   | 0.5513        | 84.1 | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 2.806  | 0.10 | 3.321   | 0             | 84.5 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1007008-41BMSD Units: mg/Kg Analysis Date: 7/9/2010 07:22 PM  
 Client ID: WSB-10 80' Run ID: FID-7\_100701D SeqNo: 2028595 Prep Date: 7/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 24.08  | 1.7  | 33.32   | 0.08525       | 72   | 70-130        | 23.61         | 1.97 | 30        |      |
| TPH (Motor Oil Range)  | 26.09  | 3.4  | 33.32   | 0.5513        | 76.7 | 70-130        | 28.51         | 8.87 | 30        |      |
| Surr: 2-Fluorobiphenyl | 2.612  | 0.10 | 3.329   | 0             | 78.5 | 70-130        | 2.806         | 7.17 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1007008-41B | 1007008-42B | 1007008-43B |
| 1007008-44B |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1007008  
 Project: Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: **R93623** Instrument ID **BTEX1** Method: **SW8021B**

| <b>MBLK</b>                | Sample ID: <b>MEOHW1-070210-R93623</b> |     |         |               | Units: <b>µg/L</b>    |               | Analysis Date: <b>7/2/2010 06:36 PM</b> |      |              |      |
|----------------------------|----------------------------------------|-----|---------|---------------|-----------------------|---------------|-----------------------------------------|------|--------------|------|
| Client ID:                 | Run ID: <b>BTEX1_100702B</b>           |     |         |               | SeqNo: <b>2018114</b> |               | Prep Date:                              |      | DF: <b>1</b> |      |
| Analyte                    | Result                                 | PQL | SPK Val | SPK Ref Value | %REC                  | Control Limit | RPD Ref Value                           | %RPD | RPD Limit    | Qual |
| Benzene                    | ND                                     | 1.0 |         |               |                       |               |                                         |      |              |      |
| Toluene                    | ND                                     | 1.0 |         |               |                       |               |                                         |      |              |      |
| Ethylbenzene               | ND                                     | 1.0 |         |               |                       |               |                                         |      |              |      |
| Xylenes, Total             | ND                                     | 3.0 |         |               |                       |               |                                         |      |              |      |
| Surr: 4-Bromofluorobenzene | 28.25                                  | 1.0 | 30      | 0             | 94.2                  | 77-129        | 0                                       |      |              |      |
| Surr: Trifluorotoluene     | 26.73                                  | 1.0 | 30      | 0             | 89.1                  | 75-130        | 0                                       |      |              |      |

| <b>MBLK</b>                | Sample ID: <b>BBLKW1-070210-R93623</b> |     |         |               | Units: <b>µg/L</b>    |               | Analysis Date: <b>7/2/2010 06:55 PM</b> |      |              |      |
|----------------------------|----------------------------------------|-----|---------|---------------|-----------------------|---------------|-----------------------------------------|------|--------------|------|
| Client ID:                 | Run ID: <b>BTEX1_100702B</b>           |     |         |               | SeqNo: <b>2018115</b> |               | Prep Date:                              |      | DF: <b>1</b> |      |
| Analyte                    | Result                                 | PQL | SPK Val | SPK Ref Value | %REC                  | Control Limit | RPD Ref Value                           | %RPD | RPD Limit    | Qual |
| Benzene                    | ND                                     | 1.0 |         |               |                       |               |                                         |      |              |      |
| Toluene                    | ND                                     | 1.0 |         |               |                       |               |                                         |      |              |      |
| Ethylbenzene               | ND                                     | 1.0 |         |               |                       |               |                                         |      |              |      |
| Xylenes, Total             | ND                                     | 3.0 |         |               |                       |               |                                         |      |              |      |
| Surr: 4-Bromofluorobenzene | 27.09                                  | 1.0 | 30      | 0             | 90.3                  | 77-129        | 0                                       |      |              |      |
| Surr: Trifluorotoluene     | 26.46                                  | 1.0 | 30      | 0             | 88.2                  | 75-130        | 0                                       |      |              |      |

| <b>LCS</b>                 | Sample ID: <b>BLCSW1-070210-R93623</b> |     |         |               | Units: <b>µg/L</b>    |               | Analysis Date: <b>7/2/2010 06:18 PM</b> |      |              |      |
|----------------------------|----------------------------------------|-----|---------|---------------|-----------------------|---------------|-----------------------------------------|------|--------------|------|
| Client ID:                 | Run ID: <b>BTEX1_100702B</b>           |     |         |               | SeqNo: <b>2018113</b> |               | Prep Date:                              |      | DF: <b>1</b> |      |
| Analyte                    | Result                                 | PQL | SPK Val | SPK Ref Value | %REC                  | Control Limit | RPD Ref Value                           | %RPD | RPD Limit    | Qual |
| Benzene                    | 19.32                                  | 1.0 | 20      | 0             | 96.6                  | 77-126        | 0                                       |      |              |      |
| Toluene                    | 19.42                                  | 1.0 | 20      | 0             | 97.1                  | 80-124        | 0                                       |      |              |      |
| Ethylbenzene               | 19.51                                  | 1.0 | 20      | 0             | 97.6                  | 76-125        | 0                                       |      |              |      |
| Xylenes, Total             | 57.36                                  | 3.0 | 60      | 0             | 95.6                  | 79-124        | 0                                       |      |              |      |
| Surr: 4-Bromofluorobenzene | 28.65                                  | 1.0 | 30      | 0             | 95.5                  | 77-129        | 0                                       |      |              |      |
| Surr: Trifluorotoluene     | 28.67                                  | 1.0 | 30      | 0             | 95.6                  | 75-130        | 0                                       |      |              |      |

| <b>MS</b>                  | Sample ID: <b>1006974-04AMS</b> |     |         |               | Units: <b>µg/L</b>    |               | Analysis Date: <b>7/2/2010 09:08 PM</b> |      |              |      |
|----------------------------|---------------------------------|-----|---------|---------------|-----------------------|---------------|-----------------------------------------|------|--------------|------|
| Client ID:                 | Run ID: <b>BTEX1_100702B</b>    |     |         |               | SeqNo: <b>2018122</b> |               | Prep Date:                              |      | DF: <b>1</b> |      |
| Analyte                    | Result                          | PQL | SPK Val | SPK Ref Value | %REC                  | Control Limit | RPD Ref Value                           | %RPD | RPD Limit    | Qual |
| Benzene                    | 16.29                           | 1.0 | 20      | 0             | 81.4                  | 77-126        | 0                                       |      |              |      |
| Toluene                    | 18.42                           | 1.0 | 20      | 0             | 92.1                  | 80-124        | 0                                       |      |              |      |
| Ethylbenzene               | 19.64                           | 1.0 | 20      | 0             | 98.2                  | 76-125        | 0                                       |      |              |      |
| Xylenes, Total             | 59.4                            | 3.0 | 60      | 0             | 99                    | 79-124        | 0                                       |      |              |      |
| Surr: 4-Bromofluorobenzene | 28.17                           | 1.0 | 30      | 0             | 93.9                  | 77-129        | 0                                       |      |              |      |
| Surr: Trifluorotoluene     | 24.24                           | 1.0 | 30      | 0             | 80.8                  | 75-130        | 0                                       |      |              |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
Work Order: 1007008  
Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: R93623 Instrument ID BTEX1 Method: SW8021B

MSD Sample ID: 1006974-04AMSD Units: µg/L Analysis Date: 7/2/2010 09:46 PM  
Client ID: Run ID: BTEX1\_100702B SeqNo: 2018123 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD   | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|--------|-----------|------|
| Benzene                    | 15.47  | 1.0 | 20      | 0             | 77.4 | 77-126        | 16.29         | 5.13   | 20        |      |
| Toluene                    | 17.57  | 1.0 | 20      | 0             | 87.8 | 80-124        | 18.42         | 4.74   | 20        |      |
| Ethylbenzene               | 18.37  | 1.0 | 20      | 0             | 91.9 | 76-125        | 19.64         | 6.67   | 20        |      |
| Xylenes, Total             | 55.78  | 3.0 | 60      | 0             | 93   | 79-124        | 59.4          | 6.29   | 20        |      |
| Surr: 4-Bromofluorobenzene | 28.19  | 1.0 | 30      | 0             | 94   | 77-129        | 28.17         | 0.0729 | 20        |      |
| Surr: Trifluorotoluene     | 25     | 1.0 | 30      | 0             | 83.3 | 75-130        | 24.24         | 3.09   | 20        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1007008-03A | 1007008-04A | 1007008-45A |
| 1007008-46A |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1007008  
 Project: Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: R93633 Instrument ID BTEX3 Method: SW8021B

| <b>MBLK</b>                |        | Sample ID: BBLKS1-070110-R93633 |         |               | Units: µg/Kg   |               | Analysis Date: 7/1/2010 01:35 PM |      |           |      |
|----------------------------|--------|---------------------------------|---------|---------------|----------------|---------------|----------------------------------|------|-----------|------|
| Client ID:                 |        | Run ID: BTEX3_100701A           |         |               | SeqNo: 2018293 |               | Prep Date:                       |      | DF: 1     |      |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                    | %RPD | RPD Limit | Qual |
| Benzene                    | ND     | 1.0                             |         |               |                |               |                                  |      |           |      |
| Toluene                    | ND     | 1.0                             |         |               |                |               |                                  |      |           |      |
| Ethylbenzene               | ND     | 1.0                             |         |               |                |               |                                  |      |           |      |
| Xylenes, Total             | ND     | 3.0                             |         |               |                |               |                                  |      |           |      |
| Surr: 4-Bromofluorobenzene | 25.76  | 1.0                             | 30      | 0             | 85.9           | 75-131        | 0                                |      |           |      |
| Surr: Trifluorotoluene     | 27.18  | 1.0                             | 30      | 0             | 90.6           | 73-130        | 0                                |      |           |      |

| <b>LCS</b>                 |        | Sample ID: BLCSS1-070110-R93633 |         |               | Units: µg/Kg   |               | Analysis Date: 7/1/2010 12:59 PM |      |           |      |
|----------------------------|--------|---------------------------------|---------|---------------|----------------|---------------|----------------------------------|------|-----------|------|
| Client ID:                 |        | Run ID: BTEX3_100701A           |         |               | SeqNo: 2018292 |               | Prep Date:                       |      | DF: 1     |      |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                    | %RPD | RPD Limit | Qual |
| Benzene                    | 22.15  | 1.0                             | 20      | 0             | 111            | 74-129        | 0                                |      |           |      |
| Toluene                    | 21.12  | 1.0                             | 20      | 0             | 106            | 75-128        | 0                                |      |           |      |
| Ethylbenzene               | 19.16  | 1.0                             | 20      | 0             | 95.8           | 73-127        | 0                                |      |           |      |
| Xylenes, Total             | 62.16  | 3.0                             | 60      | 0             | 104            | 74-127        | 0                                |      |           |      |
| Surr: 4-Bromofluorobenzene | 28.66  | 1.0                             | 30      | 0             | 95.5           | 75-131        | 0                                |      |           |      |
| Surr: Trifluorotoluene     | 29.13  | 1.0                             | 30      | 0             | 97.1           | 73-130        | 0                                |      |           |      |

| <b>MS</b>                  |        | Sample ID: 1007008-01AMS |         |               | Units: µg/Kg   |               | Analysis Date: 7/1/2010 09:36 PM |      |           |      |
|----------------------------|--------|--------------------------|---------|---------------|----------------|---------------|----------------------------------|------|-----------|------|
| Client ID: WSB-8 10'       |        | Run ID: BTEX3_100701A    |         |               | SeqNo: 2018301 |               | Prep Date:                       |      | DF: 1     |      |
| Analyte                    | Result | PQL                      | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                    | %RPD | RPD Limit | Qual |
| Benzene                    | 20.72  | 1.0                      | 20      | 0             | 104            | 74-129        | 0                                |      |           |      |
| Toluene                    | 20.68  | 1.0                      | 20      | 0             | 103            | 75-128        | 0                                |      |           |      |
| Ethylbenzene               | 20.78  | 1.0                      | 20      | 0             | 104            | 73-127        | 0                                |      |           |      |
| Xylenes, Total             | 62.96  | 3.0                      | 60      | 0             | 105            | 74-127        | 0                                |      |           |      |
| Surr: 4-Bromofluorobenzene | 28.74  | 1.0                      | 30      | 0             | 95.8           | 75-131        | 0                                |      |           |      |
| Surr: Trifluorotoluene     | 27.36  | 1.0                      | 30      | 0             | 91.2           | 73-130        | 0                                |      |           |      |

| <b>MSD</b>                 |        | Sample ID: 1007008-01AMSD |         |               | Units: µg/Kg   |               | Analysis Date: 7/1/2010 09:56 PM |       |           |      |
|----------------------------|--------|---------------------------|---------|---------------|----------------|---------------|----------------------------------|-------|-----------|------|
| Client ID: WSB-8 10'       |        | Run ID: BTEX3_100701A     |         |               | SeqNo: 2018302 |               | Prep Date:                       |       | DF: 1     |      |
| Analyte                    | Result | PQL                       | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                    | %RPD  | RPD Limit | Qual |
| Benzene                    | 21.13  | 1.0                       | 20      | 0             | 106            | 74-129        | 20.72                            | 1.93  | 30        |      |
| Toluene                    | 20.93  | 1.0                       | 20      | 0             | 105            | 75-128        | 20.68                            | 1.19  | 30        |      |
| Ethylbenzene               | 20.85  | 1.0                       | 20      | 0             | 104            | 73-127        | 20.78                            | 0.336 | 30        |      |
| Xylenes, Total             | 63.49  | 3.0                       | 60      | 0             | 106            | 74-127        | 62.96                            | 0.846 | 30        |      |
| Surr: 4-Bromofluorobenzene | 28.69  | 1.0                       | 30      | 0             | 95.6           | 75-131        | 28.74                            | 0.165 | 30        |      |
| Surr: Trifluorotoluene     | 27.5   | 1.0                       | 30      | 0             | 91.7           | 73-130        | 27.36                            | 0.524 | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1007008  
Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: **R93633**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1007008-01A | 1007008-05A | 1007008-06A |
| 1007008-07A | 1007008-08A | 1007008-10A |
| 1007008-11A | 1007008-12A | 1007008-13A |
| 1007008-14A | 1007008-15A | 1007008-16A |
| 1007008-17A | 1007008-18A | 1007008-19A |
| 1007008-20A |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1007008  
 Project: Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: R93638 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-070210-R93638 Units: µg/Kg Analysis Date: 7/2/2010 05:18 PM

Client ID: Run ID: BTEX3\_100702A SeqNo: 2018407 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 24.54  | 1.0 | 30      | 0             | 81.8 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 24.56  | 1.0 | 30      | 0             | 81.9 | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-070210-R93638 Units: µg/Kg Analysis Date: 7/2/2010 04:27 PM

Client ID: Run ID: BTEX3\_100702A SeqNo: 2018406 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.9   | 1.0 | 20      | 0             | 99.5 | 74-129        | 0             |      |           |      |
| Toluene                    | 19.89  | 1.0 | 20      | 0             | 99.4 | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 19.93  | 1.0 | 20      | 0             | 99.7 | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 60.36  | 3.0 | 60      | 0             | 101  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 27.51  | 1.0 | 30      | 0             | 91.7 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 26.09  | 1.0 | 30      | 0             | 87   | 73-130        | 0             |      |           |      |

MS Sample ID: 1007063-01AMS Units: µg/Kg Analysis Date: 7/2/2010 10:58 PM

Client ID: Run ID: BTEX3\_100702A SeqNo: 2018420 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.53  | 1.0 | 20      | 0             | 103  | 74-129        | 0             |      |           |      |
| Toluene                    | 20.21  | 1.0 | 20      | 0             | 101  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 19.89  | 1.0 | 20      | 0             | 99.4 | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 60.48  | 3.0 | 60      | 0             | 101  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 28.61  | 1.0 | 30      | 0             | 95.4 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 27.25  | 1.0 | 30      | 0             | 90.8 | 73-130        | 0             |      |           |      |

MSD Sample ID: 1007063-01AMSD Units: µg/Kg Analysis Date: 7/2/2010 11:18 PM

Client ID: Run ID: BTEX3\_100702A SeqNo: 2018422 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 20.78  | 1.0 | 20      | 0             | 104  | 74-129        | 20.53         | 1.18  | 30        |      |
| Toluene                    | 20.85  | 1.0 | 20      | 0             | 104  | 75-128        | 20.21         | 3.09  | 30        |      |
| Ethylbenzene               | 20.57  | 1.0 | 20      | 0             | 103  | 73-127        | 19.89         | 3.35  | 30        |      |
| Xylenes, Total             | 62.78  | 3.0 | 60      | 0             | 105  | 74-127        | 60.48         | 3.73  | 30        |      |
| Surr: 4-Bromofluorobenzene | 28.51  | 1.0 | 30      | 0             | 95   | 75-131        | 28.61         | 0.333 | 30        |      |
| Surr: Trifluorotoluene     | 27.63  | 1.0 | 30      | 0             | 92.1 | 73-130        | 27.25         | 1.39  | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1007008  
Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: **R93638**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1007008-38A | 1007008-39A | 1007008-40A |
| 1007008-41A | 1007008-42A | 1007008-43A |
| 1007008-44A |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1007008  
 Project: Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: **R93648** Instrument ID **BTEX3** Method: **SW8021B**

| <b>MBLK</b>                |        | Sample ID: <b>BBLKS1-070210-R93648</b> |         |               |      | Units: <b>µg/Kg</b>   |               | Analysis Date: <b>7/2/2010 04:37 AM</b> |           |              |
|----------------------------|--------|----------------------------------------|---------|---------------|------|-----------------------|---------------|-----------------------------------------|-----------|--------------|
| Client ID:                 |        | Run ID: <b>BTEX3_100701B</b>           |         |               |      | SeqNo: <b>2018549</b> |               | Prep Date:                              |           | DF: <b>1</b> |
| Analyte                    | Result | PQL                                    | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                    | RPD Limit | Qual         |
| Benzene                    | ND     | 1.0                                    |         |               |      |                       |               |                                         |           |              |
| Toluene                    | ND     | 1.0                                    |         |               |      |                       |               |                                         |           |              |
| Ethylbenzene               | ND     | 1.0                                    |         |               |      |                       |               |                                         |           |              |
| Xylenes, Total             | ND     | 3.0                                    |         |               |      |                       |               |                                         |           |              |
| Surr: 4-Bromofluorobenzene | 27.01  | 1.0                                    | 30      | 0             | 90   | 75-131                | 0             |                                         |           |              |
| Surr: Trifluorotoluene     | 27.08  | 1.0                                    | 30      | 0             | 90.3 | 73-130                | 0             |                                         |           |              |

| <b>LCS</b>                 |        | Sample ID: <b>BLCSS1-070210-R93648</b> |         |               |      | Units: <b>µg/Kg</b>   |               | Analysis Date: <b>7/2/2010 03:56 AM</b> |           |              |
|----------------------------|--------|----------------------------------------|---------|---------------|------|-----------------------|---------------|-----------------------------------------|-----------|--------------|
| Client ID:                 |        | Run ID: <b>BTEX3_100701B</b>           |         |               |      | SeqNo: <b>2018548</b> |               | Prep Date:                              |           | DF: <b>1</b> |
| Analyte                    | Result | PQL                                    | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                    | RPD Limit | Qual         |
| Benzene                    | 21.2   | 1.0                                    | 20      | 0             | 106  | 74-129                | 0             |                                         |           |              |
| Toluene                    | 20.83  | 1.0                                    | 20      | 0             | 104  | 75-128                | 0             |                                         |           |              |
| Ethylbenzene               | 20.12  | 1.0                                    | 20      | 0             | 101  | 73-127                | 0             |                                         |           |              |
| Xylenes, Total             | 61.76  | 3.0                                    | 60      | 0             | 103  | 74-127                | 0             |                                         |           |              |
| Surr: 4-Bromofluorobenzene | 28.6   | 1.0                                    | 30      | 0             | 95.3 | 75-131                | 0             |                                         |           |              |
| Surr: Trifluorotoluene     | 28.66  | 1.0                                    | 30      | 0             | 95.5 | 73-130                | 0             |                                         |           |              |

| <b>MS</b>                    |        | Sample ID: <b>1007008-26AMS</b> |         |               |      | Units: <b>µg/Kg</b>   |               | Analysis Date: <b>7/2/2010 12:10 PM</b> |           |              |
|------------------------------|--------|---------------------------------|---------|---------------|------|-----------------------|---------------|-----------------------------------------|-----------|--------------|
| Client ID: <b>WSB-11 40'</b> |        | Run ID: <b>BTEX3_100701B</b>    |         |               |      | SeqNo: <b>2018567</b> |               | Prep Date:                              |           | DF: <b>1</b> |
| Analyte                      | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                    | RPD Limit | Qual         |
| Benzene                      | 20.09  | 1.0                             | 20      | 0             | 100  | 74-129                | 0             |                                         |           |              |
| Toluene                      | 19.58  | 1.0                             | 20      | 0             | 97.9 | 75-128                | 0             |                                         |           |              |
| Ethylbenzene                 | 19.46  | 1.0                             | 20      | 0             | 97.3 | 73-127                | 0             |                                         |           |              |
| Xylenes, Total               | 58.79  | 3.0                             | 60      | 0             | 98   | 74-127                | 0             |                                         |           |              |
| Surr: 4-Bromofluorobenzene   | 26.17  | 1.0                             | 30      | 0             | 87.2 | 75-131                | 0             |                                         |           |              |
| Surr: Trifluorotoluene       | 25.41  | 1.0                             | 30      | 0             | 84.7 | 73-130                | 0             |                                         |           |              |

| <b>MSD</b>                   |        | Sample ID: <b>1007008-26AMSD</b> |         |               |      | Units: <b>µg/Kg</b>   |               | Analysis Date: <b>7/2/2010 12:30 PM</b> |           |              |
|------------------------------|--------|----------------------------------|---------|---------------|------|-----------------------|---------------|-----------------------------------------|-----------|--------------|
| Client ID: <b>WSB-11 40'</b> |        | Run ID: <b>BTEX3_100701B</b>     |         |               |      | SeqNo: <b>2018568</b> |               | Prep Date:                              |           | DF: <b>1</b> |
| Analyte                      | Result | PQL                              | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                    | RPD Limit | Qual         |
| Benzene                      | 18.62  | 1.0                              | 20      | 0             | 93.1 | 74-129                | 20.09         | 7.62                                    | 30        |              |
| Toluene                      | 19     | 1.0                              | 20      | 0             | 95   | 75-128                | 19.58         | 3                                       | 30        |              |
| Ethylbenzene                 | 19.54  | 1.0                              | 20      | 0             | 97.7 | 73-127                | 19.46         | 0.416                                   | 30        |              |
| Xylenes, Total               | 59.09  | 3.0                              | 60      | 0             | 98.5 | 74-127                | 58.79         | 0.523                                   | 30        |              |
| Surr: 4-Bromofluorobenzene   | 26.41  | 1.0                              | 30      | 0             | 88   | 75-131                | 26.17         | 0.919                                   | 30        |              |
| Surr: Trifluorotoluene       | 24.85  | 1.0                              | 30      | 0             | 82.8 | 73-130                | 25.41         | 2.22                                    | 30        |              |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1007008  
Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: **R93648**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1007008-02A | 1007008-04A | 1007008-09A |
| 1007008-21A | 1007008-22A | 1007008-23A |
| 1007008-24A | 1007008-25A | 1007008-26A |
| 1007008-27A | 1007008-28A | 1007008-29A |
| 1007008-30A | 1007008-31A | 1007008-32A |
| 1007008-33A | 1007008-34A | 1007008-35A |
| 1007008-36A | 1007008-37A |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1007008  
 Project: Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: **R93862** Instrument ID **FID-9** Method: **SW8015**

| <b>MBLK</b>                       | Sample ID: <b>GBLKS-070810-R93862</b> |               |            |               | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>7/8/2010 01:01 PM</b> |      |              |      |
|-----------------------------------|---------------------------------------|---------------|------------|---------------|-----------------------|---------------|-----------------------------------------|------|--------------|------|
| Client ID:                        | Run ID: <b>FID-9_100708A</b>          |               |            |               | SeqNo: <b>2023144</b> |               | Prep Date:                              |      | DF: <b>1</b> |      |
| Analyte                           | Result                                | PQL           | SPK Val    | SPK Ref Value | %REC                  | Control Limit | RPD Ref Value                           | %RPD | RPD Limit    | Qual |
| Gasoline Range Organics           | ND                                    | 0.050         |            |               |                       |               |                                         |      |              |      |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>0.1004</i>                         | <i>0.0050</i> | <i>0.1</i> | <i>0</i>      | <i>100</i>            | <i>70-130</i> | <i>0</i>                                |      |              |      |

| <b>LCS</b>                        | Sample ID: <b>GLCSS-070810-R93862</b> |               |            |               | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>7/8/2010 12:13 PM</b> |      |              |      |
|-----------------------------------|---------------------------------------|---------------|------------|---------------|-----------------------|---------------|-----------------------------------------|------|--------------|------|
| Client ID:                        | Run ID: <b>FID-9_100708A</b>          |               |            |               | SeqNo: <b>2023143</b> |               | Prep Date:                              |      | DF: <b>1</b> |      |
| Analyte                           | Result                                | PQL           | SPK Val    | SPK Ref Value | %REC                  | Control Limit | RPD Ref Value                           | %RPD | RPD Limit    | Qual |
| Gasoline Range Organics           | 1.157                                 | 0.050         | 1          | 0             | 116                   | 70-130        | 0                                       |      |              |      |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>0.1092</i>                         | <i>0.0050</i> | <i>0.1</i> | <i>0</i>      | <i>109</i>            | <i>70-130</i> | <i>0</i>                                |      |              |      |

| <b>MS</b>                         | Sample ID: <b>1007008-01BMS</b> |               |            |               | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>7/8/2010 06:03 PM</b> |      |              |      |
|-----------------------------------|---------------------------------|---------------|------------|---------------|-----------------------|---------------|-----------------------------------------|------|--------------|------|
| Client ID: <b>WSB-8 10'</b>       | Run ID: <b>FID-9_100708A</b>    |               |            |               | SeqNo: <b>2023148</b> |               | Prep Date:                              |      | DF: <b>1</b> |      |
| Analyte                           | Result                          | PQL           | SPK Val    | SPK Ref Value | %REC                  | Control Limit | RPD Ref Value                           | %RPD | RPD Limit    | Qual |
| Gasoline Range Organics           | 1.205                           | 0.050         | 1          | 0             | 121                   | 70-130        | 0                                       |      |              |      |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>0.107</i>                    | <i>0.0050</i> | <i>0.1</i> | <i>0</i>      | <i>107</i>            | <i>70-130</i> | <i>0</i>                                |      |              |      |

| <b>MSD</b>                        | Sample ID: <b>1007008-01BMSD</b> |               |            |               | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>7/8/2010 06:27 PM</b> |             |              |      |
|-----------------------------------|----------------------------------|---------------|------------|---------------|-----------------------|---------------|-----------------------------------------|-------------|--------------|------|
| Client ID: <b>WSB-8 10'</b>       | Run ID: <b>FID-9_100708A</b>     |               |            |               | SeqNo: <b>2023149</b> |               | Prep Date:                              |             | DF: <b>1</b> |      |
| Analyte                           | Result                           | PQL           | SPK Val    | SPK Ref Value | %REC                  | Control Limit | RPD Ref Value                           | %RPD        | RPD Limit    | Qual |
| Gasoline Range Organics           | 1.235                            | 0.050         | 1          | 0             | 124                   | 70-130        | 1.205                                   | 2.47        | 30           |      |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>0.1135</i>                    | <i>0.0050</i> | <i>0.1</i> | <i>0</i>      | <i>113</i>            | <i>70-130</i> | <i>0.107</i>                            | <i>5.86</i> | <i>30</i>    |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1007008-01B | 1007008-03B | 1007008-04B |
| 1007008-09B | 1007008-13B | 1007008-14B |
| 1007008-15B | 1007008-16B | 1007008-17B |
| 1007008-18B |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
Work Order: 1007008  
Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: R93863 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-070910-R93863 Units: mg/Kg Analysis Date: 7/9/2010 01:00 PM  
Client ID: Run ID: FID-9\_100709A SeqNo: 2023158 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND     | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.114  | 0.0050 | 0.1     | 0             | 114  | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-070910-R93863 Units: mg/Kg Analysis Date: 7/9/2010 12:07 PM  
Client ID: Run ID: FID-9\_100709A SeqNo: 2023157 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.21   | 0.050  | 1       | 0             | 121  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1159 | 0.0050 | 0.1     | 0             | 116  | 70-130        | 0             |      |           |      |

MS Sample ID: 1007008-12BMS Units: mg/Kg Analysis Date: 7/9/2010 03:45 PM  
Client ID: WSB-9 10' Run ID: FID-9\_100709A SeqNo: 2023165 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.223  | 0.050  | 1       | 0             | 122  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1187 | 0.0050 | 0.1     | 0             | 119  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1007008-12BMSD Units: mg/Kg Analysis Date: 7/9/2010 04:09 PM  
Client ID: WSB-9 10' Run ID: FID-9\_100709A SeqNo: 2023166 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Gasoline Range Organics    | 1.236  | 0.050  | 1       | 0             | 124  | 70-130        | 1.223         | 1.03  | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.1176 | 0.0050 | 0.1     | 0             | 118  | 70-130        | 0.1187        | 0.961 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1007008-02B | 1007008-05B | 1007008-06B |
| 1007008-07B | 1007008-08B | 1007008-10B |
| 1007008-11B | 1007008-12B | 1007008-19B |
| 1007008-20B | 1007008-21B | 1007008-22B |
| 1007008-23B | 1007008-24B | 1007008-25B |
| 1007008-26B | 1007008-27B | 1007008-28B |
| 1007008-29B | 1007008-30B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1007008  
Project: Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: R93864 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-071010-R93864 Units: mg/Kg Analysis Date: 7/10/2010 04:32 AM

Client ID: Run ID: FID-9\_100709B SeqNo: 2023182 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND      | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.09163 | 0.0050 | 0.1     | 0             | 91.6 | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-071010-R93864 Units: mg/Kg Analysis Date: 7/10/2010 04:09 AM

Client ID: Run ID: FID-9\_100709B SeqNo: 2023181 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.14   | 0.050  | 1       | 0             | 114  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1021 | 0.0050 | 0.1     | 0             | 102  | 70-130        | 0             |      |           |      |

MS Sample ID: 1007008-44BMS Units: mg/Kg Analysis Date: 7/10/2010 11:07 AM

Client ID: WSB-10 110' Run ID: FID-9\_100709B SeqNo: 2023197 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.22    | 0.050  | 1       | 0             | 122  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.09808 | 0.0050 | 0.1     | 0             | 98.1 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1007008-44BMSD Units: mg/Kg Analysis Date: 7/10/2010 11:31 AM

Client ID: WSB-10 110' Run ID: FID-9\_100709B SeqNo: 2023198 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.238   | 0.050  | 1       | 0             | 124  | 70-130        | 1.22          | 1.43 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.09694 | 0.0050 | 0.1     | 0             | 96.9 | 70-130        | 0.09808       | 1.16 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1007008-31B | 1007008-32B | 1007008-33B |
| 1007008-34B | 1007008-35B | 1007008-36B |
| 1007008-37B | 1007008-38B | 1007008-39B |
| 1007008-40B | 1007008-41B | 1007008-42B |
| 1007008-43B | 1007008-44B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1007008  
Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: 44421 Instrument ID ICS2100 Method: E300

LCS Sample ID: WLCSS1-070910-44421 Units: mg/Kg Analysis Date: 7/12/2010 11:35 AM

Client ID: Run ID: ICS2100\_100712A SeqNo: 2025168 Prep Date: 7/9/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 192.2  | 5.0 | 200     | 0             | 96.1 | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 47.33  | 1.0 | 50      | 0             | 94.7 | 85-115        | 0             |      |           |      |

MS Sample ID: 1007008-23BMS Units: mg/Kg Analysis Date: 7/12/2010 01:02 PM

Client ID: WSB-11 10' Run ID: ICS2100\_100712A SeqNo: 2025187 Prep Date: 7/9/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 124.5  | 4.9  | 98.62   | 20.54         | 105  | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 50.81  | 0.99 | 49.31   | 0             | 103  | 80-120        | 0             |      |           |      |

MS Sample ID: 1007008-39BMS Units: mg/Kg Analysis Date: 7/12/2010 06:37 PM

Client ID: WSB-10 60' Run ID: ICS2100\_100712A SeqNo: 2025212 Prep Date: 7/9/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 183.1  | 5.0  | 99.4    | 78.07         | 106  | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 52.36  | 0.99 | 49.7    | 0             | 105  | 80-120        | 0             |      |           |      |

MSD Sample ID: 1007008-23BMSD Units: mg/Kg Analysis Date: 7/12/2010 01:17 PM

Client ID: WSB-11 10' Run ID: ICS2100\_100712A SeqNo: 2025188 Prep Date: 7/9/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 121.6  | 4.9  | 98.62   | 20.54         | 102  | 75-125        | 124.5         | 2.37 | 20        |      |
| Surr: Selenate (surr) | 49.38  | 0.99 | 49.31   | 0             | 100  | 80-120        | 50.81         | 2.85 | 20        |      |

MSD Sample ID: 1007008-39BMSD Units: mg/Kg Analysis Date: 7/12/2010 06:51 PM

Client ID: WSB-10 60' Run ID: ICS2100\_100712A SeqNo: 2025213 Prep Date: 7/9/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 177.4  | 5.0  | 99.4    | 78.07         | 99.9 | 75-125        | 183.1         | 3.17 | 20        |      |
| Surr: Selenate (surr) | 50.89  | 0.99 | 49.7    | 0             | 102  | 80-120        | 52.36         | 2.83 | 20        |      |

DUP Sample ID: 1007008-23BDUP Units: mg/Kg Analysis Date: 7/12/2010 12:48 PM

Client ID: WSB-11 10' Run ID: ICS2100\_100712A SeqNo: 2025185 Prep Date: 7/9/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 20.91  | 4.9  | 0       | 0             | 0    | 0-0           | 20.54         | 1.76 | 20        |      |
| Surr: Selenate (surr) | 48.6   | 0.99 | 49.31   | 0             | 98.6 | 85-115        | 46.57         | 4.27 | 20        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1007008  
**Project:** Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: **44421** Instrument ID **ICS2100** Method: **E300**

**DUP** Sample ID: **1007008-39BDUP** Units: **mg/Kg** Analysis Date: **7/12/2010 06:22 PM**  
Client ID: **WSB-10 60'** Run ID: **ICS2100\_100712A** SeqNo: **2025211** Prep Date: **7/9/2010** DF: **1**

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 76.24  | 5.0  | 0       | 0             | 0    | 0-0           | 78.07         | 2.37 | 20        |      |
| Surr: Selenate (surr) | 49.48  | 0.99 | 49.7    | 0             | 99.6 | 85-115        | 51            | 3.03 | 20        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1007008-20B | 1007008-21B | 1007008-22B |
| 1007008-23B | 1007008-24B | 1007008-25B |
| 1007008-26B | 1007008-27B | 1007008-28B |
| 1007008-29B | 1007008-30B | 1007008-31B |
| 1007008-32B | 1007008-33B | 1007008-34B |
| 1007008-35B | 1007008-36B | 1007008-37B |
| 1007008-38B | 1007008-39B |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1007008  
Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: 44423 Instrument ID ICS2100 Method: E300

MS Sample ID: 1007008-41BMS Units: mg/Kg Analysis Date: 7/12/2010 08:48 PM  
Client ID: WSB-10 80' Run ID: ICS2100\_100712C SeqNo: 2025417 Prep Date: 7/9/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 154.6  | 5.0 | 99.8    | 60.99         | 93.8 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 49.24  | 1.0 | 49.9    | 0             | 98.7 | 80-120        | 0             |      |           |      |

MSD Sample ID: 1007008-41BMSD Units: mg/Kg Analysis Date: 7/12/2010 09:02 PM  
Client ID: WSB-10 80' Run ID: ICS2100\_100712C SeqNo: 2025418 Prep Date: 7/9/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 160.2  | 5.0 | 99.8    | 60.99         | 99.4 | 75-125        | 154.6         | 3.56 | 20        |      |
| Surr: Selenate (surr) | 51.29  | 1.0 | 49.9    | 0             | 103  | 80-120        | 49.24         | 4.07 | 20        |      |

DUP Sample ID: 1007008-41BDUP Units: mg/Kg Analysis Date: 7/12/2010 08:33 PM  
Client ID: WSB-10 80' Run ID: ICS2100\_100712C SeqNo: 2025416 Prep Date: 7/9/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 56.83  | 5.0 | 0       | 0             | 0    | 0-0           | 60.99         | 7.06 | 20        |      |
| Surr: Selenate (surr) | 48.26  | 1.0 | 49.9    | 0             | 96.7 | 85-115        | 51.91         | 7.27 | 20        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1007008-40B | 1007008-41B | 1007008-42B |
| 1007008-43B | 1007008-44B |             |

Client: Navajo Refining Company  
 Work Order: 1007008  
 Project: Lea Refining Soil Borings

# QC BATCH REPORT

Batch ID: 44445 Instrument ID ICS3K2 Method: E300

|                       |        |                                |         |               |      |                |               |                                   |           |       |
|-----------------------|--------|--------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| <b>MBLK</b>           |        | Sample ID: WBLKS3-070810-44445 |         |               |      | Units: mg/Kg   |               | Analysis Date: 7/10/2010 01:45 PM |           |       |
| Client ID:            |        | Run ID: ICS3K2_100709D         |         |               |      | SeqNo: 2024808 |               | Prep Date: 7/8/2010               |           | DF: 1 |
| Analyte               | Result | PQL                            | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Chloride              | 2.78   | 5.0                            | 0       | 0             | 0    | 0-0            | 0             |                                   |           | J     |
| Surr: Selenate (surr) | 45.9   | 1.0                            | 50      | 0             | 91.8 | 85-115         | 0             |                                   |           |       |

|                       |        |                                |         |               |      |                |               |                                   |           |       |
|-----------------------|--------|--------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| <b>LCS</b>            |        | Sample ID: WLCSS3-070810-44445 |         |               |      | Units: mg/Kg   |               | Analysis Date: 7/10/2010 02:28 PM |           |       |
| Client ID:            |        | Run ID: ICS3K2_100709D         |         |               |      | SeqNo: 2024810 |               | Prep Date: 7/8/2010               |           | DF: 1 |
| Analyte               | Result | PQL                            | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Chloride              | 184.6  | 5.0                            | 200     | 0             | 92.3 | 90-110         | 0             |                                   |           |       |
| Surr: Selenate (surr) | 44.84  | 1.0                            | 50      | 0             | 89.7 | 85-115         | 0             |                                   |           |       |

|             |        |                                 |         |               |      |                |               |                                   |           |       |
|-------------|--------|---------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| <b>LCSD</b> |        | Sample ID: WLCSDS3-070810-44445 |         |               |      | Units: mg/Kg   |               | Analysis Date: 7/10/2010 02:50 PM |           |       |
| Client ID:  |        | Run ID: ICS3K2_100709D          |         |               |      | SeqNo: 2024811 |               | Prep Date: 7/8/2010               |           | DF: 1 |
| Analyte     | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Chloride    | 184.4  | 5.0                             | 200     | 0             | 92.2 | 90-110         | 184.6         | 0.125                             | 20        |       |

|                      |        |                          |         |               |      |                |               |                                   |           |       |
|----------------------|--------|--------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| <b>MS</b>            |        | Sample ID: 1007008-01BMS |         |               |      | Units: mg/Kg   |               | Analysis Date: 7/10/2010 09:23 PM |           |       |
| Client ID: WSB-8 10' |        | Run ID: ICS3K2_100709D   |         |               |      | SeqNo: 2024815 |               | Prep Date: 7/8/2010               |           | DF: 1 |
| Analyte              | Result | PQL                      | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Chloride             | 190.3  | 10                       | 199.9   | 5.317         | 92.6 | 75-125         | 0             |                                   |           |       |

|                       |        |                          |         |               |      |                |               |                                   |           |       |
|-----------------------|--------|--------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| <b>MS</b>             |        | Sample ID: 1007008-19BMS |         |               |      | Units: mg/Kg   |               | Analysis Date: 7/12/2010 09:53 AM |           |       |
| Client ID: WSB-9 80'  |        | Run ID: ICS3K2_100709D   |         |               |      | SeqNo: 2025953 |               | Prep Date: 7/8/2010               |           | DF: 1 |
| Analyte               | Result | PQL                      | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Chloride              | 99.61  | 4.8                      | 97.09   | 9.845         | 92.5 | 75-125         | 0             |                                   |           |       |
| Surr: Selenate (surr) | 44.04  | 0.97                     | 48.54   | 0             | 90.7 | 80-120         | 0             |                                   |           |       |

|                      |        |                           |         |               |      |                |               |                                   |           |       |
|----------------------|--------|---------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| <b>MSD</b>           |        | Sample ID: 1007008-01BMSD |         |               |      | Units: mg/Kg   |               | Analysis Date: 7/10/2010 09:44 PM |           |       |
| Client ID: WSB-8 10' |        | Run ID: ICS3K2_100709D    |         |               |      | SeqNo: 2024816 |               | Prep Date: 7/8/2010               |           | DF: 1 |
| Analyte              | Result | PQL                       | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Chloride             | 189.1  | 10                        | 199.9   | 5.317         | 91.9 | 75-125         | 190.3         | 0.664                             | 20        |       |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1007008  
Project: Lea Refining Soil Borings

## QC BATCH REPORT

Batch ID: 44445 Instrument ID ICS3K2 Method: E300

MSD Sample ID: 1007008-19BMSD Units: mg/Kg Analysis Date: 7/12/2010 10:15 AM  
Client ID: WSB-9 80' Run ID: ICS3K2\_100709D SeqNo: 2025954 Prep Date: 7/8/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Chloride              | 99.47  | 4.8  | 97.09   | 9.845         | 92.3 | 75-125        | 99.61         | 0.146 | 20        |      |
| Surr: Selenate (surr) | 44.18  | 0.97 | 48.54   | 0             | 91   | 80-120        | 44.04         | 0.33  | 20        |      |

DUP Sample ID: 1007008-01BDUP Units: mg/Kg Analysis Date: 7/10/2010 09:01 PM  
Client ID: WSB-8 10' Run ID: ICS3K2\_100709D SeqNo: 2024814 Prep Date: 7/8/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 10.51  | 10  | 0       | 0             | 0    | 0-0           | 5.317         | 65.7 | 20        | R    |
| Surr: Selenate (surr) | ND     | 2.0 | 0       | 0             | 0    | 85-115        | 0             | 0    | 20        |      |

DUP Sample ID: 1007008-19BDUP Units: mg/Kg Analysis Date: 7/12/2010 09:31 AM  
Client ID: WSB-9 80' Run ID: ICS3K2\_100709D SeqNo: 2025952 Prep Date: 7/8/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 9.99   | 4.8  | 0       | 0             | 0    | 0-0           | 9.845         | 1.47 | 20        |      |
| Surr: Selenate (surr) | 45.47  | 0.97 | 48.54   | 0             | 93.7 | 85-115        | 44.27         | 2.66 | 20        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1007008-01B | 1007008-02B | 1007008-03B |
| 1007008-04B | 1007008-05B | 1007008-06B |
| 1007008-07B | 1007008-08B | 1007008-09B |
| 1007008-10B | 1007008-11B | 1007008-12B |
| 1007008-13B | 1007008-14B | 1007008-15B |
| 1007008-16B | 1007008-17B | 1007008-18B |
| 1007008-19B |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

# ALS Laboratory Group

Date: 19-Jul-10

**Client:** Navajo Refining Company  
**Project:** Lea Refining Soil Borings  
**WorkOrder:** 1007008

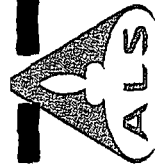
## QUALIFIERS, ACRONYMS, UNITS

| <u>Qualifier</u> | <u>Description</u>                                                        |
|------------------|---------------------------------------------------------------------------|
| *                | Value exceeds Regulatory Limit                                            |
| a                | Not accredited                                                            |
| B                | Analyte detected in the associated Method Blank above the Reporting Limit |
| E                | Value above quantitation range                                            |
| H                | Analyzed outside of Holding Time                                          |
| J                | Analyte detected below quantitation limit                                 |
| M                | Manually integrated, see raw data for justification                       |
| n                | Not offered for accreditation                                             |
| ND               | Not Detected at the Reporting Limit                                       |
| O                | Sample amount is > 4 times amount spiked                                  |
| P                | Dual Column results percent difference > 40%                              |
| R                | RPD above laboratory control limit                                        |
| S                | Spike Recovery outside laboratory control limits                          |
| U                | Analyzed but not detected above the MDL                                   |

| <u>Acronym</u> | <u>Description</u>                  |
|----------------|-------------------------------------|
| DUP            | Method Duplicate                    |
| LCS            | Laboratory Control Sample           |
| LCSD           | Laboratory Control Sample Duplicate |
| MBLK           | Method Blank                        |
| MDL            | Method Detection Limit              |
| MQL            | Method Quantitation Limit           |
| MS             | Matrix Spike                        |
| MSD            | Matrix Spike Duplicate              |
| PDS            | Post Digestion Spike                |
| PQL            | Practical Quantitation Limit        |
| SD             | Serial Dilution                     |
| SDL            | Sample Detection Limit              |
| TRRP           | Texas Risk Reduction Program        |

| <u>Units Reported</u> | <u>Description</u>      |
|-----------------------|-------------------------|
| mg/Kg                 | Milligrams per Kilogram |
| mg/L                  | Milligrams per Liter    |



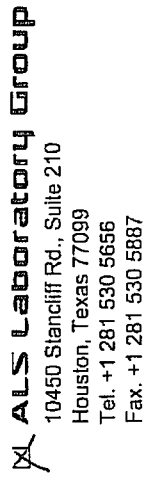


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Chain of Custody Form

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Fax: +1 616 399 6185

| Customer Information                                                                                                                                                                     |                         |                         |                         | Project Information     |                                       |           |   | ALS Work Order #                     |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------------------------|-----------|---|--------------------------------------|---|---|---|---------------------------|---|---|---|---------------|---|---|---|------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Purchase Order                                                                                                                                                                           | Project Name            | Project Number          | Project Name            | Project Number          | Parameter/Method Request for Analysis |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| Company Name                                                                                                                                                                             | Navajo Refining Company | Navajo Refining Company | Navajo Refining Company | Navajo Refining Company | DTX (6021)                            |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| Send Report To                                                                                                                                                                           | Darrell Moore           | Darrell Moore           | Darrell Moore           | Darrell Moore           | GRO (8015M)                           |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| Address                                                                                                                                                                                  | P.O. Box 159            | P.O. Box 159            | P.O. Box 159            | P.O. Box 159            | DRO (0015M)                           |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| City/State/Zip                                                                                                                                                                           | Antonia, NM 88211       | Antonia, NM 88211       | Antonia, NM 88211       | Antonia, NM 88211       | GRO (8015M)                           |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| Phone                                                                                                                                                                                    | (505) 748-3311          | (505) 748-3311          | (505) 748-3311          | (505) 748-3311          | Anions (300) Cl                       |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| Fax                                                                                                                                                                                      | (505) 746-5421          | (505) 746-5421          | (505) 746-5421          | (505) 746-5421          |                                       |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| e-Mail Address                                                                                                                                                                           | dgbayer@SESJ-NM.com     |                         |                         |                         |                                       |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| No.                                                                                                                                                                                      | Sample Description      | Date                    | Time                    | Matrix                  | Pres.                                 | # Bottles | A | B                                    | C | D | E | F                         | G | H | I | J             | K | L | M | N          | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| 1                                                                                                                                                                                        | WSR-B 10'               | 6/26/10                 | 0820                    | Sei                     | 8                                     | 2         | X | X                                    | X | X | X |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| 2                                                                                                                                                                                        | 20'                     |                         | 0825                    |                         |                                       |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| 3                                                                                                                                                                                        | 30'                     |                         | 0835                    |                         |                                       |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| 4                                                                                                                                                                                        | 40'                     |                         | 0840                    |                         |                                       |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| 5                                                                                                                                                                                        | 50'                     |                         | 0850                    |                         |                                       |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| 6                                                                                                                                                                                        | 60'                     |                         | 0905                    |                         |                                       |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| 7                                                                                                                                                                                        | 70'                     |                         | 0915                    |                         |                                       |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| 8                                                                                                                                                                                        | 80'                     |                         | 0925                    |                         |                                       |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| 9                                                                                                                                                                                        | 90'                     |                         | 0935                    |                         |                                       |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| 10                                                                                                                                                                                       | WSR-B 100'              | 6/26/10                 | 0945                    | Sei                     | 8                                     | 2         | X | X                                    | X | X | X |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| Sampler(s) Please Print & Sign                                                                                                                                                           |                         |                         |                         | Shipments Method        |                                       |           |   | Required Turnaround Time (Check Box) |   |   |   | Results Due Date          |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| D. Bayer                                                                                                                                                                                 |                         |                         |                         | Fed Ex                  |                                       |           |   | 10 Days                              |   |   |   | 10 Day TAT                |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |
| Relinquished by: D. Bayer                                                                                                                                                                |                         |                         |                         | Date: 6/25/10           |                                       |           |   | Time: 0630                           |   |   |   | Received by: [Signature]  |   |   |   | Date: 6/20/10 |   |   |   | Time: 0630 |   |   |   |   |   |   |   |   |   |   |   |   |
| Relinquished by: [Signature]                                                                                                                                                             |                         |                         |                         | Date: 6/25/10           |                                       |           |   | Time: 0630                           |   |   |   | Received by: [Signature]  |   |   |   | Date: 6/20/10 |   |   |   | Time: 0630 |   |   |   |   |   |   |   |   |   |   |   |   |
| Logged by (Laboratory):                                                                                                                                                                  |                         |                         |                         | Date: 6/25/10           |                                       |           |   | Time: 0630                           |   |   |   | Received by (Laboratory): |   |   |   | Date: 6/20/10 |   |   |   | Time: 0630 |   |   |   |   |   |   |   |   |   |   |   |   |
| Preservative Key: 1-HCl, 2-HNO <sub>3</sub> , 3-H <sub>2</sub> SO <sub>4</sub> , 4-NaOH, 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 6-NaHSO <sub>4</sub> , 7-Other, 8-4°C, 9-5035 |                         |                         |                         |                         |                                       |           |   |                                      |   |   |   |                           |   |   |   |               |   |   |   |            |   |   |   |   |   |   |   |   |   |   |   |   |



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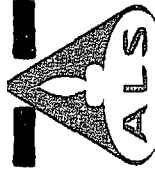
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Page 2 of 5

| Customer Information |                    |         |      | Project Information            |       |           |   | ALS Project Manager: |   |   |   | ALS Work Order #:                     |   |   |   |   |      |
|----------------------|--------------------|---------|------|--------------------------------|-------|-----------|---|----------------------|---|---|---|---------------------------------------|---|---|---|---|------|
| Purchase Order       |                    |         |      | Lea Refining - Soil / Refinery |       |           |   | BTEX (8021)          |   |   |   | Parameter/Method Request for Analysis |   |   |   |   |      |
| Work Order           |                    |         |      | NAV-12-002                     |       |           |   | GRO (8015M)          |   |   |   |                                       |   |   |   |   |      |
| Company Name         |                    |         |      | Navajo Refining Company        |       |           |   | DRO (8015M)          |   |   |   |                                       |   |   |   |   |      |
| Send Report To       |                    |         |      | Darrell Moore                  |       |           |   | ORO (8015M)          |   |   |   |                                       |   |   |   |   |      |
| Address              |                    |         |      | P.O. Box 159                   |       |           |   | Actions (300) CI     |   |   |   |                                       |   |   |   |   |      |
| City/State/Zip       |                    |         |      | Artesia, NM 88211              |       |           |   |                      |   |   |   |                                       |   |   |   |   |      |
| Phone                |                    |         |      | (505) 748-3311                 |       |           |   |                      |   |   |   |                                       |   |   |   |   |      |
| Fax                  |                    |         |      | (505) 748-5421                 |       |           |   |                      |   |   |   |                                       |   |   |   |   |      |
| e-Mail Address       |                    |         |      | dmoore@SESI-NM.com             |       |           |   |                      |   |   |   |                                       |   |   |   |   |      |
| No.                  | Sample Description | Date    | Time | Matrix                         | Pres. | # Bottles | A | B                    | C | D | E | F                                     | G | H | I | J | Hold |
| 1                    | WSB-8 110'         | 6/26/10 | 0855 | Soil                           | 8     | 2         | X | X                    | X | X | X |                                       |   |   |   |   |      |
| 2                    | WSB-9 10'          |         | 1305 |                                |       |           |   |                      |   |   |   |                                       |   |   |   |   |      |
| 3                    | 20'                |         | 1315 |                                |       |           |   |                      |   |   |   |                                       |   |   |   |   |      |
| 4                    | 30'                |         | 1320 |                                |       |           |   |                      |   |   |   |                                       |   |   |   |   |      |
| 5                    | 40'                |         | 1325 |                                |       |           |   |                      |   |   |   |                                       |   |   |   |   |      |
| 6                    | 50'                |         | 1335 |                                |       |           |   |                      |   |   |   |                                       |   |   |   |   |      |
| 7                    | 60'                |         | 1340 |                                |       |           |   |                      |   |   |   |                                       |   |   |   |   |      |
| 8                    | 70'                |         | 1345 |                                |       |           |   |                      |   |   |   |                                       |   |   |   |   |      |
| 9                    | 80'                |         | 1355 |                                |       |           |   |                      |   |   |   |                                       |   |   |   |   |      |
| 10                   | WSB-9 90'          | 6/26/10 | 1400 | Soil                           | 8     | 2         | X | X                    | X | X | X |                                       |   |   |   |   |      |

| Sample(s) Please Print & Sign: |                                                                             | Shipment Method |           | Required Turnaround Time: (Check Box)               |              | Results Due Date: |       |
|--------------------------------|-----------------------------------------------------------------------------|-----------------|-----------|-----------------------------------------------------|--------------|-------------------|-------|
| Date                           | Signature                                                                   | Date            | Signature | 1-5 Wk Days                                         | 6-12 Wk Days | 13-24 Hour        | Other |
| 6/29/10                        | ALB                                                                         | 6/29/10         | FedEx     |                                                     |              |                   |       |
| Relinquished by:               | 4-Boya                                                                      | Time:           |           | Notes: 10 Day TAT                                   |              |                   |       |
| Relinquished by:               |                                                                             | Time:           |           | QC Package: (Check One Box Below)                   |              |                   |       |
| Logged by (Laboratory):        |                                                                             | Time:           |           | <input checked="" type="checkbox"/> Level II Std QC |              |                   |       |
| Preservative Key:              | 1-HCl, 2-HNO3, 3-H2SO4, 4-NaOH, 5-Na2S2O3, 6-NaHSO3, 7-Other: 8-4°C, 9-5035 | Time:           |           | <input type="checkbox"/> Level III Std QC/Raw Data  |              |                   |       |
|                                |                                                                             | Time:           |           | <input type="checkbox"/> Level IV SW646/CLP         |              |                   |       |
|                                |                                                                             | Time:           |           | <input type="checkbox"/> Other / EDD                |              |                   |       |

Note: 1. Any changes must be made in writing once samples and COC form have been submitted to ALS Laboratory Group.



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Page 5 of 5

| Customer Information |                      |         |      | Project Information         |       |          |   | ALS Project Manager: ALS Work Order #: 10006 |   |   |   |   |   |   |   |   |      |  |  |
|----------------------|----------------------|---------|------|-----------------------------|-------|----------|---|----------------------------------------------|---|---|---|---|---|---|---|---|------|--|--|
| Project Name         |                      |         |      | Lea Refining - Sol. Borings |       |          |   | Parameter/Method Request for Analysis        |   |   |   |   |   |   |   |   |      |  |  |
| Project Number       |                      |         |      | NAV-10-002                  |       |          |   | BTEX (8021)                                  |   |   |   |   |   |   |   |   |      |  |  |
| Bill To Company      |                      |         |      | Navajo Refining Company     |       |          |   | GRO (8015M)                                  |   |   |   |   |   |   |   |   |      |  |  |
| Invoice Attn         |                      |         |      | Darrell Moore               |       |          |   | DRO (8015M)                                  |   |   |   |   |   |   |   |   |      |  |  |
| Address              |                      |         |      | P.O. Box 159                |       |          |   | ORO (8015M)                                  |   |   |   |   |   |   |   |   |      |  |  |
| City/State/Zip       |                      |         |      | Artesia, NM 80211           |       |          |   | Antons (300) CI                              |   |   |   |   |   |   |   |   |      |  |  |
| Phone                |                      |         |      | (505) 746-3311              |       |          |   |                                              |   |   |   |   |   |   |   |   |      |  |  |
| Fax                  |                      |         |      | (505) 746-5421              |       |          |   |                                              |   |   |   |   |   |   |   |   |      |  |  |
| e-Mail Address       |                      |         |      | digboyer@SES-LNM.com        |       |          |   |                                              |   |   |   |   |   |   |   |   |      |  |  |
| No.                  | Sample Description   | Date    | Time | Matrix                      | Press | #Bottles | A | B                                            | C | D | E | F | G | H | I | J | Hold |  |  |
| 1                    | WSR-10 80'           | 6/28/10 | 1440 | Soil                        | B     | 2        | X | X                                            | X | X | X |   |   |   |   |   |      |  |  |
| 2                    | 90'                  | 1450    |      |                             |       | 7        |   |                                              |   |   |   |   |   |   |   |   |      |  |  |
| 3                    | 100'                 | 1500    |      |                             |       |          |   |                                              |   |   |   |   |   |   |   |   |      |  |  |
| 4                    | WSR-10 110'          | 6/28/10 | 1505 | Soil                        | B     | 2        | X | X                                            | X | X | X |   |   |   |   |   |      |  |  |
| 5                    | TRIP Blank 061410-36 |         |      | H <sub>2</sub> O            | 1, B  | 2        | X |                                              |   |   |   |   |   |   |   |   |      |  |  |
| 6                    | TRIP Blank 061410-37 |         |      | H <sub>2</sub> O            | 1, B  | 2        | X |                                              |   |   |   |   |   |   |   |   |      |  |  |
| 7                    |                      |         |      |                             |       |          |   |                                              |   |   |   |   |   |   |   |   |      |  |  |
| 8                    |                      |         |      |                             |       |          |   |                                              |   |   |   |   |   |   |   |   |      |  |  |
| 9                    |                      |         |      |                             |       |          |   |                                              |   |   |   |   |   |   |   |   |      |  |  |
| 10                   |                      |         |      |                             |       |          |   |                                              |   |   |   |   |   |   |   |   |      |  |  |

| Sample(s) Please Print & Sign                                                                                                                                   |                 | Shipment Method |                          | Required Turnaround Time: (Check Box) |            | Results Due Date: |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|--------------------------|---------------------------------------|------------|-------------------|--|
| G. Boyer                                                                                                                                                        |                 | FedEx           |                          | 1-5 Wk Days                           |            | 10 Day TAT        |  |
| Relinquished by:                                                                                                                                                | Date: 6/29/10   | Time: 0630      | Received by:             | Date: 6/29/10                         | Time: 0900 | Notes: 10 Day TAT |  |
| Relinquished by:                                                                                                                                                | Date:           | Time:           | Received by:             | Date:                                 | Time:      | Notes:            |  |
| Logged by (Laboratory):                                                                                                                                         | Date:           | Time:           | Checked by (Laboratory): | Date:                                 | Time:      | Notes:            |  |
| Preservative Key: 1-HCl 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 6-NaHSO <sub>3</sub> 7-Other | B-4°C C-19-5035 |                 |                          |                                       |            |                   |  |

| QC Packages: (Check One Box Below)                   |                                         |
|------------------------------------------------------|-----------------------------------------|
| <input checked="" type="checkbox"/> Level III Std QC | <input type="checkbox"/> TMRP Checklist |
| <input type="checkbox"/> Level III Std OC/Raw Data   | <input type="checkbox"/> TMRP Level IV  |
| <input type="checkbox"/> Level IV SW/64/6CLP         |                                         |
| <input type="checkbox"/> Other / ETD                 |                                         |

# ALS Laboratory Group

## Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: 30-Jun-10 09:00

Work Order: 1007008

Received by: RDH

Checklist completed by Richard Sanchez  
eSignature

01-Jul-10  
Date

Reviewed by: Hector Coronado  
eSignature

05-Jul-10  
Date

Matrices: soil

Carrier name: FedEx

|                                                         |                                         |                             |                                                 |
|---------------------------------------------------------|-----------------------------------------|-----------------------------|-------------------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Temperature(s)/Thermometer(s):                          | <u>1.6c, 1.8c</u>                       |                             | <u>002</u>                                      |
| Cooler(s)/Kit(s):                                       | <u>2475.407</u>                         |                             |                                                 |
| Water - VOA vials have zero headspace?                  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/>         |
| pH adjusted?                                            | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/>         |
| pH adjusted by:                                         | <u></u>                                 |                             |                                                 |

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

at this portion can be removed for recipient's records.

to 6/29/10 FedEx Tracking Number 873133852917

Order's name D. Boyer Phone 575 390-7167

Company SEI

Address 703 E Clinton 2475  
Dept./Floor/Suite/Room

Hobbs State NM ZIP 88240

Our Internal Billing Reference 1140-10-002

1000003

**ALS Laboratory Group**  
 10450 Stancliff Rd., Suite 210  
 Houston, Texas 77099  
 Tel. +1 281 530 5656  
 Fax. +1 281 530 5887

**CUSTODY SEAL**  
 Date: 6/29/10 Time: 0630  
 Name: D. Boyer  
 Company: SEI

**CUSTODY SEAL**  
 Date: 6/29/10 Time: 0630  
 Name: D. Boyer  
 Company: SEI

Seal Broken By: [Signature]  
 Date: 6/29/10

**ALS Laboratory Group**  
 10450 Stancliff Rd., Suite 210  
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 Tel. +1 281 530 5656  
 Fax. +1 281 530 5887

**CUSTODY SEAL**  
 Date: 6/29/10 Time: 0630  
 Name: D. Boyer  
 Company: SEI

**CUSTODY SEAL**  
 Date: 6/29/10 Time: 0630  
 Name: D. Boyer  
 Company: SEI

Seal Broken By: [Signature]  
 Date: 6/29/10

at this portion can be removed for recipient's records.

to 6/29/10 FedEx Tracking Number 873133852928

Order's name D. Boyer Phone 575 390 7067

Company SEI

Address 703 E Clinton 407  
Dept./Floor/Suite/Room

Hobbs State NM ZIP 88240

Our Internal Billing Reference 1140-10-002

**ALS Laboratory Group**  
 10450 Stancliff Rd., Suite 210  
 Houston, Texas 77099  
 Tel. +1 281 530 5656  
 Fax. +1 281 530 5887

**CUSTODY SEAL**  
 Date: 6/29/10 Time: 0630  
 Name: D. Boyer  
 Company: SEI

**CUSTODY SEAL**  
 Date: 6/29/10 Time: 0630  
 Name: D. Boyer  
 Company: SEI

Seal Broken By: [Signature]  
 Date: 6/29/10

**ALS Laboratory Group**  
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 Houston, Texas 77099  
 Tel. +1 281 530 5656  
 Fax. +1 281 530 5887

**CUSTODY SEAL**  
 Date: 6/29/10 Time: 0630  
 Name: D. Boyer  
 Company: SEI

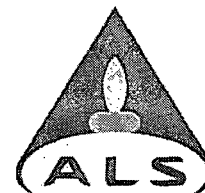
**CUSTODY SEAL**  
 Date: 6/29/10 Time: 0630  
 Name: D. Boyer  
 Company: SEI

Seal Broken By: [Signature]  
 Date: 6/29/10

**Appendix E**  
**Copies of August 2010 Water Quality Sampling Analytical Reports**

# ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



## Environmental Division

25-May-2010

Darrell Moore  
Navajo Refining Company  
PO Box 159  
Artesia, NM 88211

Tel: (575) 748-6733  
Fax: (575) 746-5421

Re: Lea Refinery New Wells

Work Order: 1005382

Dear Darrell,

ALS Laboratory Group received 10 samples on 13-May-2010 08:50 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 23.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

*JayLynn F Thibault*

Electronically approved by: Glenda H. Ramos

JayLynn F Thibault  
Project Manager



Certificate No: T104704231-09A-TX

## ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

[www.alsglobal.com](http://www.alsglobal.com) [www.elabi.com](http://www.elabi.com)

A Campbell Brothers Limited Company

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005382

## Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1005382-01         | MW-18 0-6in             | Soil          |                   | 5/10/2010 10:05        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005382-02         | MW-18 9-10'             | Soil          |                   | 5/10/2010 10:50        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005382-03         | MW-18 19-20'            | Soil          |                   | 5/10/2010 11:55        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005382-04         | MW-18 27-29'            | Soil          |                   | 5/10/2010 12:30        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005382-05         | MW-18 39-40'            | Soil          |                   | 5/11/2010 08:50        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005382-06         | MW-18 49-50'            | Soil          |                   | 5/11/2010 09:35        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005382-07         | MW-18 60-61'            | Soil          |                   | 5/11/2010 10:20        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005382-08         | MW-18 69-70'            | Soil          |                   | 5/11/2010 12:05        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005382-09         | MW-18 79-80'            | Soil          |                   | 5/11/2010 14:30        | 5/13/2010 08:50      | <input type="checkbox"/> |
| 1005382-10         | Trip Blank 042710-29    | Water         |                   | 5/11/2010              | 5/13/2010 08:50      | <input type="checkbox"/> |



# ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-18 0-6in

Collection Date: 5/10/2010 10:05 AM

Work Order: 1005382

Lab ID: 1005382-01

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/14/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 100    |      | 3.4            | mg/Kg | 2                    | 5/20/2010 04:14 PM |
| TPH (Motor Oil Range)          | 32     |      | 6.8            | mg/Kg | 2                    | 5/20/2010 04:14 PM |
| Surr: 2-Fluorobiphenyl         | 123    |      | 70-130         | %REC  | 2                    | 5/20/2010 04:14 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/19/2010 10:10 PM |
| Surr: 4-Bromofluorobenzene     | 81.5   |      | 70-130         | %REC  | 1                    | 5/19/2010 10:10 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 02:29 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 02:29 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 02:29 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/17/2010 02:29 PM |
| Surr: 4-Bromofluorobenzene     | 94.1   |      | 75-131         | %REC  | 1                    | 5/17/2010 02:29 PM |
| Surr: Trifluorotoluene         | 95.7   |      | 73-130         | %REC  | 1                    | 5/17/2010 02:29 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/17/2010 | Analyst: IGF       |
| Chloride                       | 12.4   |      | 4.73           | mg/Kg | 1                    | 5/18/2010 09:09 PM |
| Surr: Selenate (surr)          | 99.0   |      | 85-115         | %REC  | 1                    | 5/18/2010 09:09 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005382

Sample ID: MW-18 9-10'

Lab ID: 1005382-02

Collection Date: 5/10/2010 10:50 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/14/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 6.9    |      | 1.7            | mg/Kg | 1                    | 5/14/2010 06:01 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/14/2010 06:01 PM |
| Surr: 2-Fluorobiphenyl         | 117    |      | 70-130         | %REC  | 1                    | 5/14/2010 06:01 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/19/2010 10:34 PM |
| Surr: 4-Bromofluorobenzene     | 81.2   |      | 70-130         | %REC  | 1                    | 5/19/2010 10:34 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 02:49 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 02:49 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 02:49 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/17/2010 02:49 PM |
| Surr: 4-Bromofluorobenzene     | 96.4   |      | 75-131         | %REC  | 1                    | 5/17/2010 02:49 PM |
| Surr: Trifluorotoluene         | 95.6   |      | 73-130         | %REC  | 1                    | 5/17/2010 02:49 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/17/2010 | Analyst: IGF       |
| Chloride                       | 16.9   |      | 4.93           | mg/Kg | 1                    | 5/18/2010 09:31 PM |
| Surr: Selenate (surr)          | 98.0   |      | 85-115         | %REC  | 1                    | 5/18/2010 09:31 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005382

Sample ID: MW-18 19-20'

Lab ID: 1005382-03

Collection Date: 5/10/2010 11:55 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 5/14/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/14/2010 06:20 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/14/2010 06:20 PM |
| Surr: 2-Fluorobiphenyl         | 108    |      | 70-130         | %REC  | 1                    | 5/14/2010 06:20 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/19/2010 10:58 PM |
| Surr: 4-Bromofluorobenzene     | 81.9   |      | 70-130         | %REC  | 1                    | 5/19/2010 10:58 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 04:31 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 04:31 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 04:31 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/17/2010 04:31 PM |
| Surr: 4-Bromofluorobenzene     | 100    |      | 75-131         | %REC  | 1                    | 5/17/2010 04:31 PM |
| Surr: Trifluorotoluene         | 98.4   |      | 73-130         | %REC  | 1                    | 5/17/2010 04:31 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 5/17/2010 | Analyst: IGF       |
| Chloride                       | 14.9   |      | 4.72           | mg/Kg | 1                    | 5/18/2010 10:56 PM |
| Surr: Selenate (surr)          | 98.1   |      | 85-115         | %REC  | 1                    | 5/18/2010 10:56 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005382

Sample ID: MW-18 27-29'

Lab ID: 1005382-04

Collection Date: 5/10/2010 12:30 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 5/14/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 3.9    |      | 1.7            | mg/Kg | 1                    | 5/14/2010 06:40 PM |
| TPH (Motor Oil Range)          | 6.8    |      | 3.4            | mg/Kg | 1                    | 5/14/2010 06:40 PM |
| Surr: 2-Fluorobiphenyl         | 104    |      | 70-130         | %REC  | 1                    | 5/14/2010 06:40 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/19/2010 11:22 PM |
| Surr: 4-Bromofluorobenzene     | 80.5   |      | 70-130         | %REC  | 1                    | 5/19/2010 11:22 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 04:51 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 04:51 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 04:51 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/17/2010 04:51 PM |
| Surr: 4-Bromofluorobenzene     | 99.4   |      | 75-131         | %REC  | 1                    | 5/17/2010 04:51 PM |
| Surr: Trifluorotoluene         | 96.0   |      | 73-130         | %REC  | 1                    | 5/17/2010 04:51 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 5/17/2010 | Analyst: IGF       |
| Chloride                       | 18.0   |      | 4.86           | mg/Kg | 1                    | 5/18/2010 11:17 PM |
| Surr: Selenate (surr)          | 97.2   |      | 85-115         | %REC  | 1                    | 5/18/2010 11:17 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-18 39-40'

Collection Date: 5/11/2010 08:50 AM

Work Order: 1005382

Lab ID: 1005382-05

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor | Date Analyzed                                           |
|--------------------------------|--------|------|--------------|--------------|-----------------|---------------------------------------------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                 |                                                         |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | 1               | Prep Date: 5/14/2010 Analyst: KMB<br>5/14/2010 06:59 PM |
| TPH (Motor Oil Range)          | 3.8    |      | 3.4 mg/Kg    |              | 1               | 5/14/2010 06:59 PM                                      |
| Surr: 2-Fluorobiphenyl         | 109    |      | 70-130 %REC  |              | 1               | 5/14/2010 06:59 PM                                      |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                 |                                                         |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1               | Analyst: KKP<br>5/19/2010 11:46 PM                      |
| Surr: 4-Bromofluorobenzene     | 81.3   |      | 70-130 %REC  |              | 1               | 5/19/2010 11:46 PM                                      |
| <b>BTEX</b>                    |        |      |              |              |                 |                                                         |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1               | Analyst: KKP<br>5/17/2010 05:12 PM                      |
| Toluene                        | ND     |      | 0.0010 mg/Kg |              | 1               | 5/17/2010 05:12 PM                                      |
| Ethylbenzene                   | ND     |      | 0.0010 mg/Kg |              | 1               | 5/17/2010 05:12 PM                                      |
| Xylenes, Total                 | ND     |      | 0.0030 mg/Kg |              | 1               | 5/17/2010 05:12 PM                                      |
| Surr: 4-Bromofluorobenzene     | 100    |      | 75-131 %REC  |              | 1               | 5/17/2010 05:12 PM                                      |
| Surr: Trifluorotoluene         | 98.1   |      | 73-130 %REC  |              | 1               | 5/17/2010 05:12 PM                                      |
| <b>ANIONS</b>                  |        |      |              |              |                 |                                                         |
| Chloride                       | 52.1   |      | E300         | 4.78 mg/Kg   | 1               | Prep Date: 5/17/2010 Analyst: IGF<br>5/18/2010 11:39 PM |
| Surr: Selenate (surr)          | 98.3   |      | 85-115 %REC  |              | 1               | 5/18/2010 11:39 PM                                      |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005382

Sample ID: MW-18 49-50'

Lab ID: 1005382-06

Collection Date: 5/11/2010 09:35 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor | Date Analyzed                                           |
|--------------------------------|--------|------|--------------|--------------|-----------------|---------------------------------------------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                 |                                                         |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | 1               | Prep Date: 5/14/2010 Analyst: KMB<br>5/14/2010 07:18 PM |
| TPH (Motor Oil Range)          | ND     |      |              | 3.4 mg/Kg    | 1               | 5/14/2010 07:18 PM                                      |
| Surr: 2-Fluorobiphenyl         | 109    |      | 70-130       | %REC         | 1               | 5/14/2010 07:18 PM                                      |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                 |                                                         |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1               | Analyst: KKP<br>5/20/2010 12:10 AM                      |
| Surr: 4-Bromofluorobenzene     | 79.6   |      | 70-130       | %REC         | 1               | 5/20/2010 12:10 AM                                      |
| <b>BTEX</b>                    |        |      |              |              |                 |                                                         |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1               | Analyst: KKP<br>5/17/2010 05:31 PM                      |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1               | 5/17/2010 05:31 PM                                      |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1               | 5/17/2010 05:31 PM                                      |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1               | 5/17/2010 05:31 PM                                      |
| Surr: 4-Bromofluorobenzene     | 98.3   |      | 75-131       | %REC         | 1               | 5/17/2010 05:31 PM                                      |
| Surr: Trifluorotoluene         | 94.8   |      | 73-130       | %REC         | 1               | 5/17/2010 05:31 PM                                      |
| <b>ANIONS</b>                  |        |      |              |              |                 |                                                         |
| Chloride                       | 50.3   |      | E300         | 4.73 mg/Kg   | 1               | Prep Date: 5/17/2010 Analyst: IGF<br>5/19/2010          |
| Surr: Selenate (surr)          | 97.0   |      | 85-115       | %REC         | 1               | 5/19/2010                                               |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005382

Sample ID: MW-18 60-61'

Lab ID: 1005382-07

Collection Date: 5/11/2010 10:20 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 5/14/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 6.0    |      | 1.7            | mg/Kg | 1                    | 5/14/2010 07:38 PM |
| TPH (Motor Oil Range)          | 58     |      | 3.4            | mg/Kg | 1                    | 5/14/2010 07:38 PM |
| Surr: 2-Fluorobiphenyl         | 103    |      | 70-130         | %REC  | 1                    | 5/14/2010 07:38 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/20/2010 12:34 AM |
| Surr: 4-Bromofluorobenzene     | 82.0   |      | 70-130         | %REC  | 1                    | 5/20/2010 12:34 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 05:52 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 05:52 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 05:52 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/17/2010 05:52 PM |
| Surr: 4-Bromofluorobenzene     | 99.8   |      | 75-131         | %REC  | 1                    | 5/17/2010 05:52 PM |
| Surr: Trifluorotoluene         | 95.0   |      | 73-130         | %REC  | 1                    | 5/17/2010 05:52 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 5/17/2010 | Analyst: IGF       |
| Chloride                       | 42.7   |      | 4.73           | mg/Kg | 1                    | 5/19/2010 12:21 AM |
| Surr: Selenate (surr)          | 97.8   |      | 85-115         | %REC  | 1                    | 5/19/2010 12:21 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-18 69-70'

Collection Date: 5/11/2010 12:05 PM

Work Order: 1005382

Lab ID: 1005382-08

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/14/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/14/2010 07:57 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/14/2010 07:57 PM |
| Surr: 2-Fluorobiphenyl         | 106    |      | 70-130         | %REC  | 1                    | 5/14/2010 07:57 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/20/2010 01:46 AM |
| Surr: 4-Bromofluorobenzene     | 80.2   |      | 70-130         | %REC  | 1                    | 5/20/2010 01:46 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 06:12 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 06:12 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 06:12 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/17/2010 06:12 PM |
| Surr: 4-Bromofluorobenzene     | 99.5   |      | 75-131         | %REC  | 1                    | 5/17/2010 06:12 PM |
| Surr: Trifluorotoluene         | 95.7   |      | 73-130         | %REC  | 1                    | 5/17/2010 06:12 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/17/2010 | Analyst: IGF       |
| Chloride                       | 70.5   |      | 4.99           | mg/Kg | 1                    | 5/19/2010 12:43 AM |
| Surr: Selenate (surr)          | 97.4   |      | 85-115         | %REC  | 1                    | 5/19/2010 12:43 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005382

Sample ID: MW-18 79-80'

Lab ID: 1005382-09

Collection Date: 5/11/2010 02:30 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/14/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/14/2010 04:57 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/14/2010 04:57 PM |
| Surr: 2-Fluorobiphenyl         | 104    |      | 70-130         | %REC  | 1                    | 5/14/2010 04:57 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/20/2010 02:10 AM |
| Surr: 4-Bromofluorobenzene     | 78.8   |      | 70-130         | %REC  | 1                    | 5/20/2010 02:10 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 06:32 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 06:32 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/17/2010 06:32 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/17/2010 06:32 PM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 75-131         | %REC  | 1                    | 5/17/2010 06:32 PM |
| Surr: Trifluorotoluene         | 98.0   |      | 73-130         | %REC  | 1                    | 5/17/2010 06:32 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/17/2010 | Analyst: IGF       |
| Chloride                       | 44.1   |      | 4.73           | mg/Kg | 1                    | 5/19/2010 01:04 AM |
| Surr: Selenate (surr)          | 97.6   |      | 85-115         | %REC  | 1                    | 5/19/2010 01:04 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 25-May-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: Trip Blank 042710-29

Collection Date: 5/11/2010

Work Order: 1005382

Lab ID: 1005382-10

Matrix: WATER

| Analyses                   | Result | Qual | Report<br>Limit | Units | Dilution<br>Factor | Date Analyzed      |
|----------------------------|--------|------|-----------------|-------|--------------------|--------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b>  |       |                    | Analyst: KKP       |
| Benzene                    | ND     |      | 0.0010          | mg/L  | 1                  | 5/16/2010 01:43 AM |
| Toluene                    | ND     |      | 0.0010          | mg/L  | 1                  | 5/16/2010 01:43 AM |
| Ethylbenzene               | ND     |      | 0.0010          | mg/L  | 1                  | 5/16/2010 01:43 AM |
| Xylenes, Total             | ND     |      | 0.0030          | mg/L  | 1                  | 5/16/2010 01:43 AM |
| Surr: 4-Bromofluorobenzene | 96.5   |      | 77-129          | %REC  | 1                  | 5/16/2010 01:43 AM |
| Surr: Trifluorotoluene     | 88.8   |      | 75-130          | %REC  | 1                  | 5/16/2010 01:43 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005382  
 Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: 42940 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS1-100514-42940 Units: mg/Kg Analysis Date: 5/14/2010 04:57 PM

Client ID: Run ID: FID-7\_100514A SeqNo: 1965833 Prep Date: 5/14/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.966  | 0.10 | 3.33    | 0             | 119  | 70-130        | 0             |      |           |      |

LCS Sample ID: FLCSS1-100514-42940 Units: mg/Kg Analysis Date: 5/14/2010 05:16 PM

Client ID: Run ID: FID-7\_100514A SeqNo: 1965834 Prep Date: 5/14/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 37.29  | 1.7  | 33.33   | 0             | 112  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 34.87  | 3.4  | 33.33   | 0             | 105  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.212  | 0.10 | 3.33    | 0             | 126  | 70-130        | 0             |      |           |      |

MS Sample ID: 1005384-07BMS Units: mg/Kg Analysis Date: 5/14/2010 07:38 PM

Client ID: Run ID: FID-7\_100514A SeqNo: 1965875 Prep Date: 5/14/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 40.01  | 1.7  | 33.26   | 1.348         | 116  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 42.82  | 3.4  | 33.26   | 0.9376        | 126  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.802  | 0.10 | 3.323   | 0             | 114  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005384-07BMSD Units: mg/Kg Analysis Date: 5/14/2010 07:57 PM

Client ID: Run ID: FID-7\_100514A SeqNo: 1965876 Prep Date: 5/14/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 41.39  | 1.7  | 33.32   | 1.348         | 120  | 70-130        | 40.01         | 3.38 | 30        |      |
| TPH (Motor Oil Range)  | 39.94  | 3.4  | 33.32   | 0.9376        | 117  | 70-130        | 42.82         | 6.96 | 30        |      |
| Surr: 2-Fluorobiphenyl | 3.536  | 0.10 | 3.329   | 0             | 106  | 70-130        | 3.802         | 7.25 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005382-01B | 1005382-02B | 1005382-03B |
| 1005382-04B | 1005382-05B | 1005382-06B |
| 1005382-07B | 1005382-08B | 1005382-09B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005382  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: **R91063** Instrument ID **BTEX1** Method: **SW8021B**

| <b>MBLK</b>                |        | Sample ID: <b>BBLKW2-051510-R91063</b> |         |               |      | Units: <b>µg/L</b>    |               | Analysis Date: <b>5/16/2010 01:26 AM</b> |           |       |
|----------------------------|--------|----------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: <b>BTEX1_100515B</b>           |         |               |      | SeqNo: <b>1961056</b> |               | Prep Date:                               |           | DF: 1 |
| Analyte                    | Result | PQL                                    | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual  |
| Benzene                    | ND     | 1.0                                    |         |               |      |                       |               |                                          |           |       |
| Toluene                    | ND     | 1.0                                    |         |               |      |                       |               |                                          |           |       |
| Ethylbenzene               | ND     | 1.0                                    |         |               |      |                       |               |                                          |           |       |
| Xylenes, Total             | ND     | 3.0                                    |         |               |      |                       |               |                                          |           |       |
| Surr: 4-Bromofluorobenzene | 28.11  | 1.0                                    | 30      | 0             | 93.7 | 77-129                | 0             |                                          |           |       |
| Surr: Trifluorotoluene     | 27.01  | 1.0                                    | 30      | 0             | 90   | 75-130                | 0             |                                          |           |       |

| <b>LCS</b>                 |        | Sample ID: <b>BLCSW2-051510-R91063</b> |         |               |      | Units: <b>µg/L</b>    |               | Analysis Date: <b>5/16/2010 12:54 AM</b> |           |       |
|----------------------------|--------|----------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: <b>BTEX1_100515B</b>           |         |               |      | SeqNo: <b>1961055</b> |               | Prep Date:                               |           | DF: 1 |
| Analyte                    | Result | PQL                                    | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual  |
| Benzene                    | 22.49  | 1.0                                    | 20      | 0             | 112  | 77-126                | 0             |                                          |           |       |
| Toluene                    | 20.32  | 1.0                                    | 20      | 0             | 102  | 80-124                | 0             |                                          |           |       |
| Ethylbenzene               | 20.41  | 1.0                                    | 20      | 0             | 102  | 76-125                | 0             |                                          |           |       |
| Xylenes, Total             | 58.68  | 3.0                                    | 60      | 0             | 97.8 | 79-124                | 0             |                                          |           |       |
| Surr: 4-Bromofluorobenzene | 28.69  | 1.0                                    | 30      | 0             | 95.6 | 77-129                | 0             |                                          |           |       |
| Surr: Trifluorotoluene     | 30.56  | 1.0                                    | 30      | 0             | 102  | 75-130                | 0             |                                          |           |       |

| <b>MS</b>                  |        | Sample ID: <b>1005380-02AMS</b> |         |               |      | Units: <b>µg/L</b>    |               | Analysis Date: <b>5/16/2010 05:16 AM</b> |           |       |
|----------------------------|--------|---------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: <b>BTEX1_100515B</b>    |         |               |      | SeqNo: <b>1961068</b> |               | Prep Date:                               |           | DF: 1 |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual  |
| Benzene                    | 24.35  | 1.0                             | 20      | 0             | 122  | 77-126                | 0             |                                          |           |       |
| Toluene                    | 22.07  | 1.0                             | 20      | 0             | 110  | 80-124                | 0             |                                          |           |       |
| Ethylbenzene               | 22.38  | 1.0                             | 20      | 0             | 112  | 76-125                | 0             |                                          |           |       |
| Xylenes, Total             | 65.16  | 3.0                             | 60      | 0             | 109  | 79-124                | 0             |                                          |           |       |
| Surr: 4-Bromofluorobenzene | 28.89  | 1.0                             | 30      | 0             | 96.3 | 77-129                | 0             |                                          |           |       |
| Surr: Trifluorotoluene     | 29.44  | 1.0                             | 30      | 0             | 98.1 | 75-130                | 0             |                                          |           |       |

| <b>MSD</b>                 |        | Sample ID: <b>1005380-02AMSD</b> |         |               |      | Units: <b>µg/L</b>    |               | Analysis Date: <b>5/16/2010 05:33 AM</b> |           |       |
|----------------------------|--------|----------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: <b>BTEX1_100515B</b>     |         |               |      | SeqNo: <b>1961069</b> |               | Prep Date:                               |           | DF: 1 |
| Analyte                    | Result | PQL                              | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual  |
| Benzene                    | 24.68  | 1.0                              | 20      | 0             | 123  | 77-126                | 24.35         | 1.33                                     | 20        |       |
| Toluene                    | 22.47  | 1.0                              | 20      | 0             | 112  | 80-124                | 22.07         | 1.79                                     | 20        |       |
| Ethylbenzene               | 22.65  | 1.0                              | 20      | 0             | 113  | 76-125                | 22.38         | 1.19                                     | 20        |       |
| Xylenes, Total             | 65.72  | 3.0                              | 60      | 0             | 110  | 79-124                | 65.16         | 0.848                                    | 20        |       |
| Surr: 4-Bromofluorobenzene | 28.59  | 1.0                              | 30      | 0             | 95.3 | 77-129                | 28.89         | 1.05                                     | 20        |       |
| Surr: Trifluorotoluene     | 29.15  | 1.0                              | 30      | 0             | 97.2 | 75-130                | 29.44         | 0.976                                    | 20        |       |

The following samples were analyzed in this batch: 1005382-10A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1005382  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **R91168** Instrument ID **BTEX3** Method: **SW8021B**

**MBLK** Sample ID: **BBLKS1-051710-R91168** Units: **µg/Kg** Analysis Date: **5/17/2010 11:10 AM**

Client ID: Run ID: **BTEX3\_100517A** SeqNo: **1963684** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 28.48  | 1.0 | 30      | 0             | 94.9 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 28.88  | 1.0 | 30      | 0             | 96.3 | 73-130        | 0             |      |           |      |

**LCS** Sample ID: **BLCSS1-051710-R91168** Units: **µg/Kg** Analysis Date: **5/17/2010 10:50 AM**

Client ID: Run ID: **BTEX3\_100517A** SeqNo: **1963683** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.4   | 1.0 | 20      | 0             | 97   | 74-129        | 0             |      |           |      |
| Toluene                    | 19.04  | 1.0 | 20      | 0             | 95.2 | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 19.66  | 1.0 | 20      | 0             | 98.3 | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 58.42  | 3.0 | 60      | 0             | 97.4 | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.88  | 1.0 | 30      | 0             | 99.6 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 29.06  | 1.0 | 30      | 0             | 96.9 | 73-130        | 0             |      |           |      |

**MS** Sample ID: **1005382-01AMS** Units: **µg/Kg** Analysis Date: **5/17/2010 03:42 PM**

Client ID: **MW-18 0-6in** Run ID: **BTEX3\_100517A** SeqNo: **1963694** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 18.44  | 1.0 | 20      | 0             | 92.2 | 74-129        | 0             |      |           |      |
| Toluene                    | 18.22  | 1.0 | 20      | 0             | 91.1 | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 17.98  | 1.0 | 20      | 0             | 89.9 | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 53.66  | 3.0 | 60      | 0             | 89.4 | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.11  | 1.0 | 30      | 0             | 107  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.22  | 1.0 | 30      | 0             | 101  | 73-130        | 0             |      |           |      |

**MSD** Sample ID: **1005382-01AMSD** Units: **µg/Kg** Analysis Date: **5/17/2010 04:01 PM**

Client ID: **MW-18 0-6in** Run ID: **BTEX3\_100517A** SeqNo: **1963695** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 18.5   | 1.0 | 20      | 0             | 92.5 | 74-129        | 18.44         | 0.309 | 30        |      |
| Toluene                    | 18.4   | 1.0 | 20      | 0             | 92   | 75-128        | 18.22         | 1.01  | 30        |      |
| Ethylbenzene               | 18     | 1.0 | 20      | 0             | 90   | 73-127        | 17.98         | 0.147 | 30        |      |
| Xylenes, Total             | 52.99  | 3.0 | 60      | 0             | 88.3 | 74-127        | 53.66         | 1.26  | 30        |      |
| Surr: 4-Bromofluorobenzene | 28.55  | 1.0 | 30      | 0             | 95.2 | 75-131        | 32.11         | 11.7  | 30        |      |
| Surr: Trifluorotoluene     | 29.07  | 1.0 | 30      | 0             | 96.9 | 73-130        | 30.22         | 3.89  | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1005382  
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: R91168      Instrument ID BTEX3      Method: SW8021B

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005382-01A | 1005382-02A | 1005382-03A |
| 1005382-04A | 1005382-05A | 1005382-06A |
| 1005382-07A | 1005382-08A | 1005382-09A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005382  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R91452 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-051910-R91452 Units: mg/Kg Analysis Date: 5/19/2010 03:13 PM

Client ID: Run ID: FID-9\_100519A SeqNo: 1970164 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND      | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08416 | 0.0050 | 0.1     | 0             | 84.2 | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-051910-R91452 Units: mg/Kg Analysis Date: 5/19/2010 01:55 PM

Client ID: Run ID: FID-9\_100519A SeqNo: 1970162 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.165   | 0.050  | 1       | 0             | 116  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08689 | 0.0050 | 0.1     | 0             | 86.9 | 70-130        | 0             |      |           |      |

LCSD Sample ID: GLCSDS-051910-R91452 Units: mg/Kg Analysis Date: 5/19/2010 02:19 PM

Client ID: Run ID: FID-9\_100519A SeqNo: 1970163 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.134   | 0.050  | 1       | 0             | 113  | 70-130        | 1.165         | 2.63 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.08509 | 0.0050 | 0.1     | 0             | 85.1 | 70-130        | 0.08689       | 2.09 | 30        |      |

MS Sample ID: 1005384-07BMS Units: mg/Kg Analysis Date: 5/19/2010 09:07 PM

Client ID: Run ID: FID-9\_100519A SeqNo: 1970172 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.111  | 0.050  | 1       | 0             | 111  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.0826 | 0.0050 | 0.1     | 0             | 82.6 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005384-07BMSD Units: mg/Kg Analysis Date: 5/19/2010 09:30 PM

Client ID: Run ID: FID-9\_100519A SeqNo: 1970173 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Gasoline Range Organics    | 1.109   | 0.050  | 1       | 0             | 111  | 70-130        | 1.111         | 0.202 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.08118 | 0.0050 | 0.1     | 0             | 81.2 | 70-130        | 0.0826        | 1.73  | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005382-01B | 1005382-02B | 1005382-03B |
| 1005382-04B | 1005382-05B | 1005382-06B |
| 1005382-07B | 1005382-08B | 1005382-09B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005382  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: 43036 Instrument ID ICS3000 Method: E300

MBLK Sample ID: WBLKS1-051710-43036 Units: mg/Kg Analysis Date: 5/18/2010 06:19 PM

Client ID: Run ID: ICS3000\_100518A SeqNo: 1964357 Prep Date: 5/17/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Surr: Selenate (surr) | 48.36  | 1.0 | 50      | 0             | 96.7 | 85-115        | 0             |      |           |      |

LCS Sample ID: WLCSS1-051710-43036 Units: mg/Kg Analysis Date: 5/18/2010 06:40 PM

Client ID: Run ID: ICS3000\_100518A SeqNo: 1964358 Prep Date: 5/17/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 196    | 5.0 | 200     | 0             | 98   | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 48.52  | 1.0 | 50      | 0             | 97   | 85-115        | 0             |      |           |      |

MS Sample ID: 1005305-02AMS Units: mg/Kg Analysis Date: 5/18/2010 08:27 PM

Client ID: Run ID: ICS3000\_100518A SeqNo: 1964364 Prep Date: 5/17/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 103.6  | 4.9  | 97.81   | 2.318         | 104  | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 47.49  | 0.98 | 48.9    | 0             | 97.1 | 80-120        | 0             |      |           |      |

MS Sample ID: 1005382-09BMS Units: mg/Kg Analysis Date: 5/19/2010 01:25 AM

Client ID: MW-18 79-80' Run ID: ICS3000\_100518A SeqNo: 1964377 Prep Date: 5/17/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 134.7  | 4.7  | 94.52   | 44.15         | 95.8 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 48.73  | 0.94 | 47.26   | 0             | 103  | 80-120        | 0             |      |           |      |

MSD Sample ID: 1005305-02AMSD Units: mg/Kg Analysis Date: 5/18/2010 08:48 PM

Client ID: Run ID: ICS3000\_100518A SeqNo: 1964365 Prep Date: 5/17/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Chloride              | 103.8  | 4.9  | 97.81   | 2.318         | 104  | 75-125        | 103.6         | 0.208 | 20        |      |
| Surr: Selenate (surr) | 47.94  | 0.98 | 48.9    | 0             | 98   | 80-120        | 47.49         | 0.943 | 20        |      |

MSD Sample ID: 1005382-09BMSD Units: mg/Kg Analysis Date: 5/19/2010 01:47 AM

Client ID: MW-18 79-80' Run ID: ICS3000\_100518A SeqNo: 1964378 Prep Date: 5/17/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD   | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|--------|-----------|------|
| Chloride              | 134.6  | 4.7  | 94.52   | 44.15         | 95.7 | 75-125        | 134.7         | 0.0913 | 20        |      |
| Surr: Selenate (surr) | 48.74  | 0.94 | 47.26   | 0             | 103  | 80-120        | 48.73         | 0.0194 | 20        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Navajo Refining Company  
**Work Order:** 1005382  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: 43036

Instrument ID ICS3000

Method: E300

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005382-01B | 1005382-02B | 1005382-03B |
| 1005382-04B | 1005382-05B | 1005382-06B |
| 1005382-07B | 1005382-08B | 1005382-09B |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

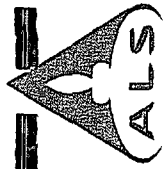
**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**WorkOrder:** 1005382

## **QUALIFIERS, ACRONYMS, UNITS**

| <u>Qualifier</u> | <u>Description</u>                                                        |
|------------------|---------------------------------------------------------------------------|
| *                | Value exceeds Regulatory Limit                                            |
| a                | Not accredited                                                            |
| B                | Analyte detected in the associated Method Blank above the Reporting Limit |
| E                | Value above quantitation range                                            |
| H                | Analyzed outside of Holding Time                                          |
| J                | Analyte detected below quantitation limit                                 |
| M                | Manually integrated, see raw data for justification                       |
| n                | Not offered for accreditation                                             |
| ND               | Not Detected at the Reporting Limit                                       |
| O                | Sample amount is > 4 times amount spiked                                  |
| P                | Dual Column results percent difference > 40%                              |
| R                | RPD above laboratory control limit                                        |
| S                | Spike Recovery outside laboratory control limits                          |
| U                | Analyzed but not detected above the MDL                                   |

| <u>Acronym</u> | <u>Description</u>                  |
|----------------|-------------------------------------|
| DUP            | Method Duplicate                    |
| LCS            | Laboratory Control Sample           |
| LCSD           | Laboratory Control Sample Duplicate |
| MBLK           | Method Blank                        |
| MDL            | Method Detection Limit              |
| MQL            | Method Quantitation Limit           |
| MS             | Matrix Spike                        |
| MSD            | Matrix Spike Duplicate              |
| PDS            | Post Digestion Spike                |
| PQL            | Practical Quantitation Limit        |
| SD             | Serial Dilution                     |
| SDL            | Sample Detection Limit              |
| TRRP           | Texas Risk Reduction Program        |

| <u>Units Reported</u> | <u>Description</u>      |
|-----------------------|-------------------------|
| mg/Kg                 | Milligrams per Kilogram |
| mg/L                  | Milligrams per Liter    |



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ALS Laboratory Group  
Chain of Custody Form

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3352 128th Ave.  
Holland, MI 49424-9263  
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Page 1 of 1

| Customer Information                                                                                                                                                           |                      |         |      | Project Information                   |       |           |   | ALS Work Order # 105381                                                                                                                                                                                                |   |   |   |                                  |   |   |   |   |      |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------|------|---------------------------------------|-------|-----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|----------------------------------|---|---|---|---|------|--|--|
| Project Name: Lea Refinery New Wells                                                                                                                                           |                      |         |      | Parameter/Method Request for Analysis |       |           |   | ALS Work Order # 105381                                                                                                                                                                                                |   |   |   |                                  |   |   |   |   |      |  |  |
| Project Number: NAV-10-003                                                                                                                                                     |                      |         |      | BTEX (8021)                           |       |           |   | ALS Work Order # 105381                                                                                                                                                                                                |   |   |   |                                  |   |   |   |   |      |  |  |
| Bill To Company: Navajo Refining Company                                                                                                                                       |                      |         |      | GRO (8015M)                           |       |           |   | ALS Work Order # 105381                                                                                                                                                                                                |   |   |   |                                  |   |   |   |   |      |  |  |
| Invoice Attn: Darrell Moore                                                                                                                                                    |                      |         |      | DRO (8015M)                           |       |           |   | ALS Work Order # 105381                                                                                                                                                                                                |   |   |   |                                  |   |   |   |   |      |  |  |
| P.O. Box 159                                                                                                                                                                   |                      |         |      | ORO (8015M)                           |       |           |   | ALS Work Order # 105381                                                                                                                                                                                                |   |   |   |                                  |   |   |   |   |      |  |  |
| City/State/Zip: Artesia, NM 88211                                                                                                                                              |                      |         |      | chloride                              |       |           |   | ALS Work Order # 105381                                                                                                                                                                                                |   |   |   |                                  |   |   |   |   |      |  |  |
| Phone: (505) 748-3311                                                                                                                                                          |                      |         |      |                                       |       |           |   | ALS Work Order # 105381                                                                                                                                                                                                |   |   |   |                                  |   |   |   |   |      |  |  |
| Fax: (505) 746-5421                                                                                                                                                            |                      |         |      |                                       |       |           |   | ALS Work Order # 105381                                                                                                                                                                                                |   |   |   |                                  |   |   |   |   |      |  |  |
| e-Mail Address: dgboyer@SESI-NM.com                                                                                                                                            |                      |         |      |                                       |       |           |   | ALS Work Order # 105381                                                                                                                                                                                                |   |   |   |                                  |   |   |   |   |      |  |  |
| No.                                                                                                                                                                            | Sample Description   | Date    | Time | Matrix                                | Pres. | # Bottles | A | B                                                                                                                                                                                                                      | C | D | E | F                                | G | H | I | J | Hold |  |  |
| 1                                                                                                                                                                              | MWD-18 0-6 in        | 5/12/10 | 1805 | Soil                                  | 8     | 2         | X | X                                                                                                                                                                                                                      | X | X | X |                                  |   |   |   |   |      |  |  |
| 2                                                                                                                                                                              | 9-18'                | 5/12/10 | 1250 |                                       |       |           | X | X                                                                                                                                                                                                                      | X | X | X |                                  |   |   |   |   |      |  |  |
| 3                                                                                                                                                                              | 19-20'               | 5/12/10 | 1155 |                                       |       |           | X | X                                                                                                                                                                                                                      | X | X | X |                                  |   |   |   |   |      |  |  |
| 4                                                                                                                                                                              | 27-29'               | 5/12/10 | 1230 |                                       |       |           | X | X                                                                                                                                                                                                                      | X | X | X |                                  |   |   |   |   |      |  |  |
| 5                                                                                                                                                                              | 39-40'               | 5/11/10 | 0850 |                                       |       |           | X | X                                                                                                                                                                                                                      | X | X | X |                                  |   |   |   |   |      |  |  |
| 6                                                                                                                                                                              | 49-50'               | 5/11/10 | 0735 |                                       |       |           | X | X                                                                                                                                                                                                                      | X | X | X |                                  |   |   |   |   |      |  |  |
| 7                                                                                                                                                                              | 60-61'               | 5/12/10 | 1020 |                                       |       |           | X | X                                                                                                                                                                                                                      | X | X | X |                                  |   |   |   |   |      |  |  |
| 8                                                                                                                                                                              | 69-70'               | 5/11/10 | 1205 |                                       |       |           | X | X                                                                                                                                                                                                                      | X | X | X |                                  |   |   |   |   |      |  |  |
| 9                                                                                                                                                                              | 79-80'               | 5/11/10 | 1430 | Soil                                  | 8     | 2         | X | X                                                                                                                                                                                                                      | X | X | X |                                  |   |   |   |   |      |  |  |
| 10                                                                                                                                                                             | TRIP Blank 042710-29 | 5/12/10 | 1500 | H <sub>2</sub> O                      | 1, 8  | 2         | X | X                                                                                                                                                                                                                      | X | X | X |                                  |   |   |   |   |      |  |  |
| Sampler(s) Please Print & Sign: <i>Darrell Moore</i>                                                                                                                           |                      |         |      | Shipment Method: <i>Felex</i>         |       |           |   | Required Turnaround Time (Check Box):<br><input checked="" type="checkbox"/> 5-10 WIG Days <input type="checkbox"/> 10-15 WIG Days <input type="checkbox"/> 15-20 WIG Days                                             |   |   |   | Results Due Date: <i>5/12/10</i> |   |   |   |   |      |  |  |
| Relinquished by: <i>Darrell Moore</i>                                                                                                                                          |                      |         |      | Date: <i>5/12/10</i>                  |       |           |   | Received by: <i>Darrell Moore</i>                                                                                                                                                                                      |   |   |   | Date: <i>5/12/10</i>             |   |   |   |   |      |  |  |
| Relinquished by: <i>Darrell Moore</i>                                                                                                                                          |                      |         |      | Date: <i>5/12/10</i>                  |       |           |   | Received by: <i>Darrell Moore</i>                                                                                                                                                                                      |   |   |   | Date: <i>5/12/10</i>             |   |   |   |   |      |  |  |
| Logged by (Laboratory):                                                                                                                                                        |                      |         |      | Time:                                 |       |           |   | Cooler ID: <i>53010350</i>                                                                                                                                                                                             |   |   |   | Cooler Temp: <i>8°C</i>          |   |   |   |   |      |  |  |
| Preservative Key: 1-HCl 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 6-NaHSO <sub>3</sub> 7-Other 8-Other 9-5035 |                      |         |      |                                       |       |           |   | QC Package: (Check One Box Below)<br><input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other |   |   |   | TRRP Checklist                   |   |   |   |   |      |  |  |

Note: 1. Any changes must be made in writing once samples and COC form have been submitted to ALS Laboratory Group.  
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.  
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: 13-May-10 08:50

Work Order: 1005382

Received by: RSZ

Checklist completed by Robert D. Harris  
eSignature

13-May-10  
Date

Reviewed by:

eSignature

Date

Matrices: soils/water

Carrier name: FedEx

|                                                         |                                         |                             |                                                 |
|---------------------------------------------------------|-----------------------------------------|-----------------------------|-------------------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |

Temperature(s)/Thermometer(s):

2.6c 002

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace?

Yes ☒ No ☐ No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☐ No ☐ N/A ☒

pH adjusted?

Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

100004

At This portion can be removed for recipient's records.

to 9/12/00 FedEx Tracking Number 869809949890

Sender's Name J. Payer Phone 513-587-1112

Company EEN

Address Joe E. Clinton

City/Habitat State NM ZIP 86400

Internal Billing Reference



ALS Laboratory Group  
10450 Stanciliff Rd., Suite 270  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

Date: 9/12/00  
Name: J. Payer  
Company: EEN

CUSTODY SEAL

Time: 1645  
Signature: J. Payer

Seal Broken By:

Date: 5/3/10

# ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



## Environmental Division

07-Jun-2010

Darrell Moore  
Navajo Refining Company  
PO Box 159  
Artesia, NM 88211

Tel: (575) 748-6733  
Fax: (575) 746-5421

Re: Lea Refinery New Wells

Work Order: 1005714

Dear Darrell,

ALS Laboratory Group received 22 samples on 21-May-2010 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 44.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Tiffany Van

JayLynn F Thibault  
Project Manager



Certificate No: T104704231-09A-TX

### ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

[www.alsglobal.com](http://www.alsglobal.com) [www.elabi.com](http://www.elabi.com)

A Campbell Brothers Limited Company

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Work Order:** 1005714

**Work Order Sample Summary**

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1005714-01         | MW-18 90'               | Soil          |                   | 5/13/2010 10:05        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-02         | MW-19 10'               | Soil          |                   | 5/19/2010 08:40        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-03         | MW-19 20'               | Soil          |                   | 5/19/2010 08:50        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-04         | MW-19 30'               | Soil          |                   | 5/19/2010 09:05        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-05         | MW-19 40'               | Soil          |                   | 5/19/2010 09:20        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-06         | MW-19 50'               | Soil          |                   | 5/19/2010 09:30        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-07         | MW-19 60'               | Soil          |                   | 5/19/2010 09:40        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-08         | MW-19 70'               | Soil          |                   | 5/19/2010 09:50        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-09         | MW-19 80'               | Soil          |                   | 5/19/2010 10:05        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-10         | MW-19 90'               | Soil          |                   | 5/19/2010 10:30        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-11         | MW-19 100'              | Soil          |                   | 5/19/2010 10:40        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-12         | MW-20 10'               | Soil          |                   | 5/20/2010 08:15        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-13         | MW-20 20'               | Soil          |                   | 5/20/2010 08:25        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-14         | MW-20 30'               | Soil          |                   | 5/20/2010 08:55        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-15         | MW-20 40'               | Soil          |                   | 5/20/2010 09:15        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-16         | MW-20 50'               | Soil          |                   | 5/20/2010 09:25        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-17         | MW-20 60'               | Soil          |                   | 5/20/2010 09:40        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-18         | MW-20 70'               | Soil          |                   | 5/20/2010 09:55        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-19         | MW-20 80'               | Soil          |                   | 5/20/2010 10:20        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-20         | MW-20 90'               | Soil          |                   | 5/20/2010 10:30        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-21         | MW-20 95'               | Soil          |                   | 5/20/2010 10:40        | 5/21/2010 09:00      | <input type="checkbox"/> |
| 1005714-22         | Trip Blank              | Water         |                   | 5/20/2010              | 5/21/2010 09:00      | <input type="checkbox"/> |

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Work Order:** 1005714

**Case Narrative**

BTEX (Sample 1005714-01) recovery out of control limits due to matrix. Confirmed by re-analysis.

TPH (sample 1005714-18 and 19) recovery high out of control limits for surrogate. Sample non detect.



# ALS Laboratory Group

Date: 07-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-18 90'  
**Collection Date:** 5/13/2010 10:05 AM

**Work Order:** 1005714  
**Lab ID:** 1005714-01  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 20     |      | 8.5            | mg/Kg | 5                    | 6/7/2010 10:54 AM  |
| TPH (Motor Oil Range)          | 130    |      | 17             | mg/Kg | 5                    | 6/7/2010 10:54 AM  |
| Surr: 2-Fluorobiphenyl         | 71.2   |      | 70-130         | %REC  | 5                    | 6/7/2010 10:54 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/26/2010 05:34 PM |
| Surr: 4-Bromofluorobenzene     | 86.5   |      | 70-130         | %REC  | 1                    | 5/26/2010 05:34 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/23/2010 08:39 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/23/2010 08:39 AM |
| Ethylbenzene                   | 0.0013 |      | 0.0010         | mg/Kg | 1                    | 5/23/2010 08:39 AM |
| Xylenes, Total                 | 0.0043 |      | 0.0030         | mg/Kg | 1                    | 5/23/2010 08:39 AM |
| Surr: 4-Bromofluorobenzene     | 42.5   | S    | 75-131         | %REC  | 1                    | 5/23/2010 08:39 AM |
| Surr: Trifluorotoluene         | 48.9   | S    | 73-130         | %REC  | 1                    | 5/23/2010 08:39 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 25.7   |      | 4.99           | mg/Kg | 1                    | 5/27/2010 08:07 PM |
| Surr: Selenate (surr)          | 95.8   |      | 85-115         | %REC  | 1                    | 5/27/2010 08:07 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-19 10'  
**Collection Date:** 5/19/2010 08:40 AM

**Work Order:** 1005714  
**Lab ID:** 1005714-02  
**Matrix:** SOIL

| Analyses                       | Result    | Qual | Report Limit   | Units        | Dilution Factor             | Date Analyzed       |
|--------------------------------|-----------|------|----------------|--------------|-----------------------------|---------------------|
| <b>TPH DRO/ORO</b>             |           |      |                |              |                             |                     |
|                                |           |      | <b>SW8015M</b> |              | Prep Date: <b>5/27/2010</b> | Analyst: <b>KMB</b> |
| TPH (Diesel Range)             | ND        |      | 1.7            | mg/Kg        | 1                           | 6/7/2010 10:35 AM   |
| <b>TPH (Motor Oil Range)</b>   | <b>12</b> |      | <b>3.4</b>     | <b>mg/Kg</b> | 1                           | 6/7/2010 10:35 AM   |
| Surr: 2-Fluorobiphenyl         | 127       |      | 70-130         | %REC         | 1                           | 6/7/2010 10:35 AM   |
| <b>GASOLINE RANGE ORGANICS</b> |           |      |                |              |                             |                     |
|                                |           |      | <b>SW8015</b>  |              |                             | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND        |      | 0.050          | mg/Kg        | 1                           | 5/26/2010 06:12 PM  |
| Surr: 4-Bromofluorobenzene     | 87.5      |      | 70-130         | %REC         | 1                           | 5/26/2010 06:12 PM  |
| <b>BTEX</b>                    |           |      |                |              |                             |                     |
|                                |           |      | <b>SW8021B</b> |              |                             | Analyst: <b>KKP</b> |
| Benzene                        | ND        |      | 0.0010         | mg/Kg        | 1                           | 5/24/2010 05:51 PM  |
| Toluene                        | ND        |      | 0.0010         | mg/Kg        | 1                           | 5/24/2010 05:51 PM  |
| Ethylbenzene                   | ND        |      | 0.0010         | mg/Kg        | 1                           | 5/24/2010 05:51 PM  |
| Xylenes, Total                 | ND        |      | 0.0030         | mg/Kg        | 1                           | 5/24/2010 05:51 PM  |
| Surr: 4-Bromofluorobenzene     | 96.2      |      | 75-131         | %REC         | 1                           | 5/24/2010 05:51 PM  |
| Surr: Trifluorotoluene         | 102       |      | 73-130         | %REC         | 1                           | 5/24/2010 05:51 PM  |
| <b>ANIONS</b>                  |           |      |                |              |                             |                     |
|                                |           |      | <b>E300</b>    |              | Prep Date: <b>5/26/2010</b> | Analyst: <b>IGF</b> |
| Chloride                       | 1,620     |      | 48.2           | mg/Kg        | 10                          | 5/27/2010 08:21 PM  |
| Surr: Selenate (surr)          | 94.4      |      | 85-115         | %REC         | 10                          | 5/27/2010 08:21 PM  |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-19 20'  
**Collection Date:** 5/19/2010 08:50 AM

**Work Order:** 1005714  
**Lab ID:** 1005714-03  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/29/2010 10:17 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/29/2010 10:17 PM |
| Surr: 2-Fluorobiphenyl         | 121    |      | 70-130         | %REC  | 1                    | 5/29/2010 10:17 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/26/2010 06:36 PM |
| Surr: 4-Bromofluorobenzene     | 85.9   |      | 70-130         | %REC  | 1                    | 5/26/2010 06:36 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 06:11 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 06:11 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 06:11 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/24/2010 06:11 PM |
| Surr: 4-Bromofluorobenzene     | 95.1   |      | 75-131         | %REC  | 1                    | 5/24/2010 06:11 PM |
| Surr: Trifluorotoluene         | 99.1   |      | 73-130         | %REC  | 1                    | 5/24/2010 06:11 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 153    |      | 4.89           | mg/Kg | 1                    | 5/27/2010 08:36 PM |
| Surr: Selenate (surr)          | 96.3   |      | 85-115         | %REC  | 1                    | 5/27/2010 08:36 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-19 30'  
**Collection Date:** 5/19/2010 09:05 AM

**Work Order:** 1005714  
**Lab ID:** 1005714-04  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/29/2010 10:36 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/29/2010 10:36 PM |
| Surr: 2-Fluorobiphenyl         | 95.9   |      | 70-130         | %REC  | 1                    | 5/29/2010 10:36 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/26/2010 07:00 PM |
| Surr: 4-Bromofluorobenzene     | 86.9   |      | 70-130         | %REC  | 1                    | 5/26/2010 07:00 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 06:31 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 06:31 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 06:31 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/24/2010 06:31 PM |
| Surr: 4-Bromofluorobenzene     | 98.7   |      | 75-131         | %REC  | 1                    | 5/24/2010 06:31 PM |
| Surr: Trifluorotoluene         | 104    |      | 73-130         | %REC  | 1                    | 5/24/2010 06:31 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 268    |      | 4.76           | mg/Kg | 1                    | 5/27/2010 08:50 PM |
| Surr: Selenate (surr)          | 97.2   |      | 85-115         | %REC  | 1                    | 5/27/2010 08:50 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-19 40'  
**Collection Date:** 5/19/2010 09:20 AM

**Work Order:** 1005714  
**Lab ID:** 1005714-05  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/29/2010 10:56 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/29/2010 10:56 PM |
| Surr: 2-Fluorobiphenyl         | 109    |      | 70-130         | %REC  | 1                    | 5/29/2010 10:56 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/26/2010 07:24 PM |
| Surr: 4-Bromofluorobenzene     | 85.8   |      | 70-130         | %REC  | 1                    | 5/26/2010 07:24 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 06:51 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 06:51 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 06:51 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/24/2010 06:51 PM |
| Surr: 4-Bromofluorobenzene     | 97.9   |      | 75-131         | %REC  | 1                    | 5/24/2010 06:51 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 5/24/2010 06:51 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 144    |      | 4.84           | mg/Kg | 1                    | 5/27/2010 09:05 PM |
| Surr: Selenate (surr)          | 93.3   |      | 85-115         | %REC  | 1                    | 5/27/2010 09:05 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005714

Sample ID: MW-19 50'

Lab ID: 1005714-06

Collection Date: 5/19/2010 09:30 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/29/2010 11:15 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/29/2010 11:15 PM |
| Surr: 2-Fluorobiphenyl         | 113    |      | 70-130         | %REC  | 1                    | 5/29/2010 11:15 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/26/2010 07:48 PM |
| Surr: 4-Bromofluorobenzene     | 85.2   |      | 70-130         | %REC  | 1                    | 5/26/2010 07:48 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 08:31 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 08:31 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 08:31 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/24/2010 08:31 PM |
| Surr: 4-Bromofluorobenzene     | 100    |      | 75-131         | %REC  | 1                    | 5/24/2010 08:31 PM |
| Surr: Trifluorotoluene         | 106    |      | 73-130         | %REC  | 1                    | 5/24/2010 08:31 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 119    |      | 4.76           | mg/Kg | 1                    | 5/27/2010 09:19 PM |
| Surr: Selenate (surr)          | 97.4   |      | 85-115         | %REC  | 1                    | 5/27/2010 09:19 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-19 60'  
**Collection Date:** 5/19/2010 09:40 AM

**Work Order:** 1005714  
**Lab ID:** 1005714-07  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/29/2010 11:34 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/29/2010 11:34 PM |
| Surr: 2-Fluorobiphenyl         | 96.8   |      | 70-130         | %REC  | 1                    | 5/29/2010 11:34 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/26/2010 09:50 PM |
| Surr: 4-Bromofluorobenzene     | 80.4   |      | 70-130         | %REC  | 1                    | 5/26/2010 09:50 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 08:52 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 08:52 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 08:52 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/24/2010 08:52 PM |
| Surr: 4-Bromofluorobenzene     | 98.7   |      | 75-131         | %REC  | 1                    | 5/24/2010 08:52 PM |
| Surr: Trifluorotoluene         | 104    |      | 73-130         | %REC  | 1                    | 5/24/2010 08:52 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 99.2   |      | 4.97           | mg/Kg | 1                    | 5/27/2010 09:34 PM |
| Surr: Selenate (surr)          | 95.3   |      | 85-115         | %REC  | 1                    | 5/27/2010 09:34 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005714

Sample ID: MW-19 70'

Lab ID: 1005714-08

Collection Date: 5/19/2010 09:50 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/29/2010 11:54 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/29/2010 11:54 PM |
| Surr: 2-Fluorobiphenyl         | 115    |      | 70-130         | %REC  | 1                    | 5/29/2010 11:54 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/26/2010 10:14 PM |
| Surr: 4-Bromofluorobenzene     | 74.9   |      | 70-130         | %REC  | 1                    | 5/26/2010 10:14 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 09:12 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 09:12 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 09:12 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/24/2010 09:12 PM |
| Surr: 4-Bromofluorobenzene     | 97.3   |      | 75-131         | %REC  | 1                    | 5/24/2010 09:12 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 5/24/2010 09:12 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 107    |      | 4.76           | mg/Kg | 1                    | 5/27/2010 09:48 PM |
| Surr: Selenate (surr)          | 97.3   |      | 85-115         | %REC  | 1                    | 5/27/2010 09:48 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-19 80'  
**Collection Date:** 5/19/2010 10:05 AM

**Work Order:** 1005714  
**Lab ID:** 1005714-09  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 12:14 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 12:14 AM |
| Surr: 2-Fluorobiphenyl         | 127    |      | 70-130         | %REC  | 1                    | 5/30/2010 12:14 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/26/2010 10:38 PM |
| Surr: 4-Bromofluorobenzene     | 75.0   |      | 70-130         | %REC  | 1                    | 5/26/2010 10:38 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 09:32 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 09:32 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 09:32 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/24/2010 09:32 PM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 75-131         | %REC  | 1                    | 5/24/2010 09:32 PM |
| Surr: Trifluorotoluene         | 105    |      | 73-130         | %REC  | 1                    | 5/24/2010 09:32 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 41.8   |      | 5.00           | mg/Kg | 1                    | 5/27/2010 10:47 PM |
| Surr: Selenate (surr)          | 97.8   |      | 85-115         | %REC  | 1                    | 5/27/2010 10:47 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005714

Sample ID: MW-19 90'

Lab ID: 1005714-10

Collection Date: 5/19/2010 10:30 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 12:33 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 12:33 AM |
| Surr: 2-Fluorobiphenyl         | 134    | S    | 70-130         | %REC  | 1                    | 5/30/2010 12:33 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/26/2010 11:02 PM |
| Surr: 4-Bromofluorobenzene     | 73.8   |      | 70-130         | %REC  | 1                    | 5/26/2010 11:02 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 09:52 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 09:52 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 09:52 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/24/2010 09:52 PM |
| Surr: 4-Bromofluorobenzene     | 98.2   |      | 75-131         | %REC  | 1                    | 5/24/2010 09:52 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 5/24/2010 09:52 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 55.2   |      | 4.77           | mg/Kg | 1                    | 5/27/2010 11:01 PM |
| Surr: Selenate (surr)          | 95.6   |      | 85-115         | %REC  | 1                    | 5/27/2010 11:01 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005714

Sample ID: MW-19 100'

Lab ID: 1005714-11

Collection Date: 5/19/2010 10:40 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 01:31 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 01:31 AM |
| Surr: 2-Fluorobiphenyl         | 99.6   |      | 70-130         | %REC  | 1                    | 5/30/2010 01:31 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/26/2010 11:26 PM |
| Surr: 4-Bromofluorobenzene     | 73.8   |      | 70-130         | %REC  | 1                    | 5/26/2010 11:26 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 10:13 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 10:13 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 10:13 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/24/2010 10:13 PM |
| Surr: 4-Bromofluorobenzene     | 94.7   |      | 75-131         | %REC  | 1                    | 5/24/2010 10:13 PM |
| Surr: Trifluorotoluene         | 99.4   |      | 73-130         | %REC  | 1                    | 5/24/2010 10:13 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 206    |      | 4.73           | mg/Kg | 1                    | 5/27/2010 11:16 PM |
| Surr: Selenate (surr)          | 97.2   |      | 85-115         | %REC  | 1                    | 5/27/2010 11:16 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005714

Sample ID: MW-20 10'

Lab ID: 1005714-12

Collection Date: 5/20/2010 08:15 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 01:50 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 01:50 AM |
| Surr: 2-Fluorobiphenyl         | 108    |      | 70-130         | %REC  | 1                    | 5/30/2010 01:50 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/26/2010 11:50 PM |
| Surr: 4-Bromofluorobenzene     | 75.0   |      | 70-130         | %REC  | 1                    | 5/26/2010 11:50 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 10:32 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 10:32 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 10:32 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/24/2010 10:32 PM |
| Surr: 4-Bromofluorobenzene     | 99.6   |      | 75-131         | %REC  | 1                    | 5/24/2010 10:32 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 5/24/2010 10:32 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 11.6   |      | 4.82           | mg/Kg | 1                    | 5/27/2010 11:59 PM |
| Surr: Selenate (surr)          | 95.6   |      | 85-115         | %REC  | 1                    | 5/27/2010 11:59 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-20 20'  
**Collection Date:** 5/20/2010 08:25 AM

**Work Order:** 1005714  
**Lab ID:** 1005714-13  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 02:10 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 02:10 AM |
| Surr: 2-Fluorobiphenyl         | 120    |      | 70-130         | %REC  | 1                    | 5/30/2010 02:10 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 12:14 AM |
| Surr: 4-Bromofluorobenzene     | 72.0   |      | 70-130         | %REC  | 1                    | 5/27/2010 12:14 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 10:52 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 10:52 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 10:52 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/24/2010 10:52 PM |
| Surr: 4-Bromofluorobenzene     | 94.2   |      | 75-131         | %REC  | 1                    | 5/24/2010 10:52 PM |
| Surr: Trifluorotoluene         | 99.4   |      | 73-130         | %REC  | 1                    | 5/24/2010 10:52 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 6.87   |      | 4.90           | mg/Kg | 1                    | 5/28/2010 12:14 AM |
| Surr: Selenate (surr)          | 97.2   |      | 85-115         | %REC  | 1                    | 5/28/2010 12:14 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005714

Sample ID: MW-20 30'

Lab ID: 1005714-14

Collection Date: 5/20/2010 08:55 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 02:29 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 02:29 AM |
| Surr: 2-Fluorobiphenyl         | 126    |      | 70-130         | %REC  | 1                    | 5/30/2010 02:29 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 12:38 AM |
| Surr: 4-Bromofluorobenzene     | 81.1   |      | 70-130         | %REC  | 1                    | 5/27/2010 12:38 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 11:52 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 11:52 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/24/2010 11:52 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/24/2010 11:52 PM |
| Surr: 4-Bromofluorobenzene     | 99.9   |      | 75-131         | %REC  | 1                    | 5/24/2010 11:52 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                    | 5/24/2010 11:52 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 13.5   |      | 4.92           | mg/Kg | 1                    | 5/28/2010 12:29 AM |
| Surr: Selenate (surr)          | 97.7   |      | 85-115         | %REC  | 1                    | 5/28/2010 12:29 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-20 40'  
**Collection Date:** 5/20/2010 09:15 AM

**Work Order:** 1005714  
**Lab ID:** 1005714-15  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 02:48 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 02:48 AM |
| Surr: 2-Fluorobiphenyl         | 120    |      | 70-130         | %REC  | 1                    | 5/30/2010 02:48 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 01:02 AM |
| Surr: 4-Bromofluorobenzene     | 80.4   |      | 70-130         | %REC  | 1                    | 5/27/2010 01:02 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/25/2010 12:12 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/25/2010 12:12 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/25/2010 12:12 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/25/2010 12:12 AM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 75-131         | %REC  | 1                    | 5/25/2010 12:12 AM |
| Surr: Trifluorotoluene         | 104    |      | 73-130         | %REC  | 1                    | 5/25/2010 12:12 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.73           | mg/Kg | 1                    | 5/28/2010 12:43 AM |
| Surr: Selenate (surr)          | 94.7   |      | 85-115         | %REC  | 1                    | 5/28/2010 12:43 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company  
 Project: Lea Refinery New Wells  
 Sample ID: MW-20 50'  
 Collection Date: 5/20/2010 09:25 AM

Work Order: 1005714  
 Lab ID: 1005714-16  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 03:08 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 03:08 AM |
| Surr: 2-Fluorobiphenyl         | 113    |      | 70-130         | %REC  | 1                    | 5/30/2010 03:08 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 01:26 AM |
| Surr: 4-Bromofluorobenzene     | 79.4   |      | 70-130         | %REC  | 1                    | 5/27/2010 01:26 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/25/2010 12:32 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/25/2010 12:32 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/25/2010 12:32 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/25/2010 12:32 AM |
| Surr: 4-Bromofluorobenzene     | 98.3   |      | 75-131         | %REC  | 1                    | 5/25/2010 12:32 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 5/25/2010 12:32 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.88           | mg/Kg | 1                    | 5/28/2010 12:58 AM |
| Surr: Selenate (surr)          | 97.7   |      | 85-115         | %REC  | 1                    | 5/28/2010 12:58 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 07-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-20 60'  
**Collection Date:** 5/20/2010 09:40 AM

**Work Order:** 1005714  
**Lab ID:** 1005714-17  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 03:27 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 03:27 AM |
| Surr: 2-Fluorobiphenyl         | 127    |      | 70-130         | %REC  | 1                    | 5/30/2010 03:27 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 02:38 AM |
| Surr: 4-Bromofluorobenzene     | 80.1   |      | 70-130         | %REC  | 1                    | 5/27/2010 02:38 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/25/2010 12:52 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/25/2010 12:52 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/25/2010 12:52 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/25/2010 12:52 AM |
| Surr: 4-Bromofluorobenzene     | 100    |      | 75-131         | %REC  | 1                    | 5/25/2010 12:52 AM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                    | 5/25/2010 12:52 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 11.3   |      | 4.85           | mg/Kg | 1                    | 5/28/2010 01:56 AM |
| Surr: Selenate (surr)          | 98.3   |      | 85-115         | %REC  | 1                    | 5/28/2010 01:56 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005714

Sample ID: MW-20 70'

Lab ID: 1005714-18

Collection Date: 5/20/2010 09:55 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 03:46 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 03:46 AM |
| Surr: 2-Fluorobiphenyl         | 185    | S    | 70-130         | %REC  | 1                    | 5/30/2010 03:46 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 03:01 AM |
| Surr: 4-Bromofluorobenzene     | 79.9   |      | 70-130         | %REC  | 1                    | 5/27/2010 03:01 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/25/2010 01:12 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/25/2010 01:12 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/25/2010 01:12 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/25/2010 01:12 AM |
| Surr: 4-Bromofluorobenzene     | 96.8   |      | 75-131         | %REC  | 1                    | 5/25/2010 01:12 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 5/25/2010 01:12 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.94           | mg/Kg | 1                    | 5/28/2010 02:10 AM |
| Surr: Selenate (surr)          | 93.3   |      | 85-115         | %REC  | 1                    | 5/28/2010 02:10 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-20 80'  
**Collection Date:** 5/20/2010 10:20 AM

**Work Order:** 1005714  
**Lab ID:** 1005714-19  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 04:06 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 04:06 AM |
| Surr: 2-Fluorobiphenyl         | 134    | S    | 70-130         | %REC  | 1                    | 5/30/2010 04:06 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 03:25 AM |
| Surr: 4-Bromofluorobenzene     | 80.0   |      | 70-130         | %REC  | 1                    | 5/27/2010 03:25 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 10:10 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 10:10 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 10:10 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/26/2010 10:10 PM |
| Surr: 4-Bromofluorobenzene     | 91.6   |      | 75-131         | %REC  | 1                    | 5/26/2010 10:10 PM |
| Surr: Trifluorotoluene         | 104    |      | 73-130         | %REC  | 1                    | 5/26/2010 10:10 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 5.00           | mg/Kg | 1                    | 5/28/2010 02:25 AM |
| Surr: Selenate (surr)          | 97.6   |      | 85-115         | %REC  | 1                    | 5/28/2010 02:25 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

Client: Navajo Refining Company  
 Project: Lea Refinery New Wells  
 Sample ID: MW-20 90'  
 Collection Date: 5/20/2010 10:30 AM

Work Order: 1005714  
 Lab ID: 1005714-20  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 5/27/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 04:25 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 04:25 AM |
| Surr: 2-Fluorobiphenyl         | 123    |      | 70-130         | %REC  | 1                    | 5/30/2010 04:25 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 03:49 AM |
| Surr: 4-Bromofluorobenzene     | 79.3   |      | 70-130         | %REC  | 1                    | 5/27/2010 03:49 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 10:30 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 10:30 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 10:30 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/26/2010 10:30 PM |
| Surr: 4-Bromofluorobenzene     | 88.5   |      | 75-131         | %REC  | 1                    | 5/26/2010 10:30 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 5/26/2010 10:30 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.64           | mg/Kg | 1                    | 5/28/2010 02:39 AM |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                    | 5/28/2010 02:39 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-20 95'  
**Collection Date:** 5/20/2010 10:40 AM

**Work Order:** 1005714  
**Lab ID:** 1005714-21  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/29/2010 09:38 PM |
| TPH (Motor Oil Range)          | 5.1    |      | 3.4            | mg/Kg | 1                    | 5/29/2010 09:38 PM |
| Surr: 2-Fluorobiphenyl         | 117    |      | 70-130         | %REC  | 1                    | 5/29/2010 09:38 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 05:49 AM |
| Surr: 4-Bromofluorobenzene     | 78.7   |      | 70-130         | %REC  | 1                    | 5/27/2010 05:49 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 10:50 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 10:50 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 10:50 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/26/2010 10:50 PM |
| Surr: 4-Bromofluorobenzene     | 87.8   |      | 75-131         | %REC  | 1                    | 5/26/2010 10:50 PM |
| Surr: Trifluorotoluene         | 99.6   |      | 73-130         | %REC  | 1                    | 5/26/2010 10:50 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 6.89   |      | 4.96           | mg/Kg | 1                    | 5/29/2010 12:35 PM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 5/29/2010 12:35 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 07-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005714

Sample ID: Trip Blank

Lab ID: 1005714-22

Collection Date: 5/20/2010

Matrix: WATER

| Analyses | Result | Qual | Report<br>Limit | Units | Dilution<br>Factor | Date Analyzed |
|----------|--------|------|-----------------|-------|--------------------|---------------|
|----------|--------|------|-----------------|-------|--------------------|---------------|

**BTEX****SW8021B**

Analyst: KKP

|                            |     |  |        |      |   |                    |
|----------------------------|-----|--|--------|------|---|--------------------|
| Benzene                    | ND  |  | 0.0010 | mg/L | 1 | 5/27/2010 09:58 AM |
| Toluene                    | ND  |  | 0.0010 | mg/L | 1 | 5/27/2010 09:58 AM |
| Ethylbenzene               | ND  |  | 0.0010 | mg/L | 1 | 5/27/2010 09:58 AM |
| Xylenes, Total             | ND  |  | 0.0030 | mg/L | 1 | 5/27/2010 09:58 AM |
| Surr: 4-Bromofluorobenzene | 101 |  | 77-129 | %REC | 1 | 5/27/2010 09:58 AM |
| Surr: Trifluorotoluene     | 102 |  | 75-130 | %REC | 1 | 5/27/2010 09:58 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 07-Jun-10

**Client:** Navajo Refining Company  
**Work Order:** 1005714  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: 43293 Instrument ID FID-8 Method: SW8015M

**MBLK** Sample ID: FBLKS1-100527-43293 Units: mg/Kg Analysis Date: 5/29/2010 08:59 PM

Client ID: Run ID: FID-8\_100527B SeqNo: 1984800 Prep Date: 5/27/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.015  | 0.10 | 3.33    | 0             | 121  | 70-130        | 0             |      |           |      |

**LCS** Sample ID: FLCSS1-100527-43293 Units: mg/Kg Analysis Date: 5/29/2010 09:19 PM

Client ID: Run ID: FID-8\_100527B SeqNo: 1984801 Prep Date: 5/27/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 42.45  | 1.7  | 33.33   | 0             | 127  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 34.16  | 3.4  | 33.33   | 0             | 102  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.99   | 0.10 | 3.33    | 0             | 120  | 70-130        | 0             |      |           |      |

**MS** Sample ID: 1005714-20BMS Units: mg/Kg Analysis Date: 5/30/2010 04:45 AM

Client ID: MW-20 90' Run ID: FID-8\_100527B SeqNo: 1984821 Prep Date: 5/27/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 42.57  | 1.7  | 33.3    | 0.2599        | 127  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 40.56  | 3.4  | 33.3    | 0.4578        | 120  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.184  | 0.10 | 3.327   | 0             | 126  | 70-130        | 0             |      |           |      |

**MSD** Sample ID: 1005714-20BMSD Units: mg/Kg Analysis Date: 5/30/2010 05:04 AM

Client ID: MW-20 90' Run ID: FID-8\_100527B SeqNo: 1984823 Prep Date: 5/27/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 40.81  | 1.7  | 33.25   | 0.2599        | 122  | 70-130        | 42.57         | 4.24 | 30        |      |
| TPH (Motor Oil Range)  | 39.08  | 3.4  | 33.25   | 0.4578        | 116  | 70-130        | 40.56         | 3.72 | 30        |      |
| Surr: 2-Fluorobiphenyl | 4.312  | 0.10 | 3.322   | 0             | 130  | 70-130        | 4.184         | 3.01 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005714-01B | 1005714-02B | 1005714-03B |
| 1005714-04B | 1005714-05B | 1005714-06B |
| 1005714-07B | 1005714-08B | 1005714-09B |
| 1005714-10B | 1005714-11B | 1005714-12B |
| 1005714-13B | 1005714-14B | 1005714-15B |
| 1005714-16B | 1005714-17B | 1005714-18B |
| 1005714-19B | 1005714-20B |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005714  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: 43311 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS1-100528-43311 Units: mg/Kg Analysis Date: 5/29/2010 08:59 PM

Client ID: Run ID: FID-7\_100528A SeqNo: 1984874 Prep Date: 5/28/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)    | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range) | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr:2-Fluorobiphenyl | 3.084  | 0.10 | 3.33    | 0             | 92.6 | 70-130        | 0             |      |           |      |

LCS Sample ID: FLCSS1-100528-43311 Units: mg/Kg Analysis Date: 5/29/2010 09:19 PM

Client ID: Run ID: FID-7\_100528A SeqNo: 1984875 Prep Date: 5/28/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)    | 26.69  | 1.7  | 33.33   | 0             | 80.1 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range) | 35.47  | 3.4  | 33.33   | 0             | 106  | 70-130        | 0             |      |           |      |
| Surr:2-Fluorobiphenyl | 3.881  | 0.10 | 3.33    | 0             | 117  | 70-130        | 0             |      |           |      |

MS Sample ID: 1005814-03BMS Units: mg/Kg Analysis Date: 5/29/2010 10:56 PM

Client ID: Run ID: FID-7\_100528A SeqNo: 1984878 Prep Date: 5/28/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)    | 28.46  | 1.7  | 33.26   | 0             | 85.6 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range) | 41.16  | 3.4  | 33.26   | 0.3047        | 123  | 70-130        | 0             |      |           |      |
| Surr:2-Fluorobiphenyl | 3.718  | 0.10 | 3.323   | 0             | 112  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005814-03BMSD Units: mg/Kg Analysis Date: 5/29/2010 11:15 PM

Client ID: Run ID: FID-7\_100528A SeqNo: 1984879 Prep Date: 5/28/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)    | 29.12  | 1.7  | 33.23   | 0             | 87.6 | 70-130        | 28.46         | 2.27 | 30        |      |
| TPH (Motor Oil Range) | 41.63  | 3.4  | 33.23   | 0.3047        | 124  | 70-130        | 41.16         | 1.12 | 30        |      |
| Surr:2-Fluorobiphenyl | 3.499  | 0.10 | 3.32    | 0             | 105  | 70-130        | 3.718         | 6.06 | 30        |      |

The following samples were analyzed in this batch:

1005714-21B



Client: Navajo Refining Company  
 Work Order: 1005714  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R91436 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS2-052210-R91436 Units: µg/Kg Analysis Date: 5/23/2010 12:41 AM  
 Client ID: Run ID: BTEX3\_100522B SeqNo: 1969904 Prep Date: DF: 1

| Analyte                   | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                   | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                   | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene              | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total            | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr:4-Bromofluorobenzene | 27.95  | 1.0 | 30      | 0             | 93.2 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene    | 27.71  | 1.0 | 30      | 0             | 92.4 | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS2-052210-R91436 Units: µg/Kg Analysis Date: 5/23/2010 12:01 AM  
 Client ID: Run ID: BTEX3\_100522B SeqNo: 1969903 Prep Date: DF: 1

| Analyte                   | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                   | 18.93  | 1.0 | 20      | 0             | 94.6 | 74-129        | 0             |      |           |      |
| Toluene                   | 18.99  | 1.0 | 20      | 0             | 94.9 | 75-128        | 0             |      |           |      |
| Ethylbenzene              | 18.96  | 1.0 | 20      | 0             | 94.8 | 73-127        | 0             |      |           |      |
| Xylenes, Total            | 56.77  | 3.0 | 60      | 0             | 94.6 | 74-127        | 0             |      |           |      |
| Surr:4-Bromofluorobenzene | 29.47  | 1.0 | 30      | 0             | 98.2 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene    | 28.35  | 1.0 | 30      | 0             | 94.5 | 73-130        | 0             |      |           |      |

MS Sample ID: 1005645-01AMS Units: µg/Kg Analysis Date: 5/23/2010 05:00 AM  
 Client ID: Run ID: BTEX3\_100522B SeqNo: 1969921 Prep Date: DF: 1

| Analyte                   | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                   | 18.23  | 1.0 | 20      | 0             | 91.1 | 74-129        | 0             |      |           |      |
| Toluene                   | 18.27  | 1.0 | 20      | 0             | 91.3 | 75-128        | 0             |      |           |      |
| Ethylbenzene              | 18.24  | 1.0 | 20      | 0             | 91.2 | 73-127        | 0             |      |           |      |
| Xylenes, Total            | 54.26  | 3.0 | 60      | 0.9748        | 88.8 | 74-127        | 0             |      |           |      |
| Surr:4-Bromofluorobenzene | 28.28  | 1.0 | 30      | 0             | 94.3 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene    | 27.05  | 1.0 | 30      | 0             | 90.2 | 73-130        | 0             |      |           |      |

MSD Sample ID: 1005645-01AMSD Units: µg/Kg Analysis Date: 5/23/2010 05:20 AM  
 Client ID: Run ID: BTEX3\_100522B SeqNo: 1969922 Prep Date: DF: 1

| Analyte                   | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                   | 18.82  | 1.0 | 20      | 0             | 94.1 | 74-129        | 18.23         | 3.21 | 30        |      |
| Toluene                   | 18.9   | 1.0 | 20      | 0             | 94.5 | 75-128        | 18.27         | 3.4  | 30        |      |
| Ethylbenzene              | 19.01  | 1.0 | 20      | 0             | 95   | 73-127        | 18.24         | 4.13 | 30        |      |
| Xylenes, Total            | 57.39  | 3.0 | 60      | 0.9748        | 94   | 74-127        | 54.26         | 5.61 | 30        |      |
| Surr:4-Bromofluorobenzene | 30.24  | 1.0 | 30      | 0             | 101  | 75-131        | 28.28         | 6.73 | 30        |      |
| Surr: Trifluorotoluene    | 28.84  | 1.0 | 30      | 0             | 96.1 | 73-130        | 27.05         | 6.42 | 30        |      |

The following samples were analyzed in this batch: 1005714-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005714  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R91455 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-052210-R91455 Units: µg/Kg Analysis Date: 5/24/2010 04:17 PM

Client ID: Run ID: BTEX3\_100524A SeqNo: 1970217 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.04  | 1.0 | 30      | 0             | 96.8 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.94  | 1.0 | 30      | 0             | 103  | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-052210-R91455 Units: µg/Kg Analysis Date: 5/24/2010 03:50 PM

Client ID: Run ID: BTEX3\_100524A SeqNo: 1970216 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.32  | 1.0 | 20      | 0             | 102  | 74-129        | 0             |      |           |      |
| Toluene                    | 20.48  | 1.0 | 20      | 0             | 102  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.46  | 1.0 | 20      | 0             | 107  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 63.22  | 3.0 | 60      | 0             | 105  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.17  | 1.0 | 30      | 0             | 97.2 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.5   | 1.0 | 30      | 0             | 102  | 73-130        | 0             |      |           |      |

MS Sample ID: 1005668-08AMS Units: µg/Kg Analysis Date: 5/24/2010 05:00 PM

Client ID: Run ID: BTEX3\_100524A SeqNo: 1970219 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.73  | 1.0 | 20      | 0             | 104  | 74-129        | 0             |      |           |      |
| Toluene                    | 20.76  | 1.0 | 20      | 0             | 104  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.25  | 1.0 | 20      | 0             | 106  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 63.44  | 3.0 | 60      | 0             | 106  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.8   | 1.0 | 30      | 0             | 99.3 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.86  | 1.0 | 30      | 0             | 103  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1005668-08AMSD Units: µg/Kg Analysis Date: 5/24/2010 05:20 PM

Client ID: Run ID: BTEX3\_100524A SeqNo: 1970220 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD   | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|--------|-----------|------|
| Benzene                    | 20.33  | 1.0 | 20      | 0             | 102  | 74-129        | 20.73         | 1.93   | 30        |      |
| Toluene                    | 20.53  | 1.0 | 20      | 0             | 103  | 75-128        | 20.76         | 1.12   | 30        |      |
| Ethylbenzene               | 21.26  | 1.0 | 20      | 0             | 106  | 73-127        | 21.25         | 0.0725 | 30        |      |
| Xylenes, Total             | 62.76  | 3.0 | 60      | 0             | 105  | 74-127        | 63.44         | 1.08   | 30        |      |
| Surr: 4-Bromofluorobenzene | 29.23  | 1.0 | 30      | 0             | 97.4 | 75-131        | 29.8          | 1.95   | 30        |      |
| Surr: Trifluorotoluene     | 30.56  | 1.0 | 30      | 0             | 102  | 73-130        | 30.86         | 0.972  | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1005714  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **R91455**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005714-02A | 1005714-03A | 1005714-04A |
| 1005714-05A | 1005714-06A | 1005714-07A |
| 1005714-08A | 1005714-09A | 1005714-10A |
| 1005714-11A | 1005714-12A | 1005714-13A |
| 1005714-14A | 1005714-15A | 1005714-16A |
| 1005714-17A | 1005714-18A |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005714  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R91620 Instrument ID BTEX1 Method: SW8021B

MBLK Sample ID: MEOHW1-052710-R91620 Units: µg/L Analysis Date: 5/27/2010 09:08 AM

Client ID: Run ID: BTEX1\_100526B SeqNo: 1974193 Prep Date: DF: 1

| Analyte                   | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                   | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                   | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene              | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total            | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr:4-Bromofluorobenzene | 29.93  | 1.0 | 30      | 0             | 99.8 | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene    | 30.87  | 1.0 | 30      | 0             | 103  | 75-130        | 0             |      |           |      |

MBLK Sample ID: BBLKW1-052710-R91620 Units: µg/L Analysis Date: 5/27/2010 09:25 AM

Client ID: Run ID: BTEX1\_100526B SeqNo: 1974194 Prep Date: DF: 1

| Analyte                   | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                   | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                   | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene              | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total            | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr:4-Bromofluorobenzene | 30.07  | 1.0 | 30      | 0             | 100  | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene    | 31.43  | 1.0 | 30      | 0             | 105  | 75-130        | 0             |      |           |      |

LCS Sample ID: BLCSW1-052710-R91620 Units: µg/L Analysis Date: 5/27/2010 08:51 AM

Client ID: Run ID: BTEX1\_100526B SeqNo: 1974192 Prep Date: DF: 1

| Analyte                   | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                   | 23.23  | 1.0 | 20      | 0             | 116  | 77-126        | 0             |      |           |      |
| Toluene                   | 21.54  | 1.0 | 20      | 0             | 108  | 80-124        | 0             |      |           |      |
| Ethylbenzene              | 20.29  | 1.0 | 20      | 0             | 101  | 76-125        | 0             |      |           |      |
| Xylenes, Total            | 60.33  | 3.0 | 60      | 0             | 101  | 79-124        | 0             |      |           |      |
| Surr:4-Bromofluorobenzene | 30.24  | 1.0 | 30      | 0             | 101  | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene    | 32.14  | 1.0 | 30      | 0             | 107  | 75-130        | 0             |      |           |      |

MS Sample ID: 1005676-08AMS Units: µg/L Analysis Date: 5/27/2010 11:57 AM

Client ID: Run ID: BTEX1\_100526B SeqNo: 1974203 Prep Date: DF: 1

| Analyte                   | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                   | 23.26  | 1.0 | 20      | 0             | 116  | 77-126        | 0             |      |           |      |
| Toluene                   | 21.37  | 1.0 | 20      | 0.5511        | 104  | 80-124        | 0             |      |           |      |
| Ethylbenzene              | 20.34  | 1.0 | 20      | 0             | 102  | 76-125        | 0             |      |           |      |
| Xylenes, Total            | 61.74  | 3.0 | 60      | 0             | 103  | 79-124        | 0             |      |           |      |
| Surr:4-Bromofluorobenzene | 30.82  | 1.0 | 30      | 0             | 103  | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene    | 33.56  | 1.0 | 30      | 0             | 112  | 75-130        | 0             |      |           |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1005714  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R91620 Instrument ID BTEX1 Method: SW8021B

MSD Sample ID: 1005676-08AMSD Units: µg/L Analysis Date: 5/27/2010 12:14 PM

Client ID: Run ID: BTEX1\_100526B SeqNo: 1974204 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.7   | 1.0 | 20      | 0             | 98.5 | 77-126        | 23.26         | 16.6 | 20        |      |
| Toluene                    | 19.14  | 1.0 | 20      | 0.5511        | 93   | 80-124        | 21.37         | 11   | 20        |      |
| Ethylbenzene               | 18.93  | 1.0 | 20      | 0             | 94.7 | 76-125        | 20.34         | 7.2  | 20        |      |
| Xylenes, Total             | 57.55  | 3.0 | 60      | 0             | 95.9 | 79-124        | 61.74         | 7.03 | 20        |      |
| Surr: 4-Bromofluorobenzene | 30.34  | 1.0 | 30      | 0             | 101  | 77-129        | 30.82         | 1.56 | 20        |      |
| Surr: Trifluorotoluene     | 31.12  | 1.0 | 30      | 0             | 104  | 75-130        | 33.56         | 7.53 | 20        |      |

The following samples were analyzed in this batch:

1005714-22A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company

Work Order: 1005714

Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R91779

Instrument ID BTEX3

Method: SW8021B

MBLK Sample ID: BBLKS1-052610-R91779

Units: µg/Kg

Analysis Date: 5/26/2010 01:33 PM

Client ID:

Run ID: BTEX3\_100526A

SeqNo: 1978009

Prep Date:

DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 28.75  | 1.0 | 30      | 0             | 95.8 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.17  | 1.0 | 30      | 0             | 104  | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-052610-R91779

Units: µg/Kg

Analysis Date: 5/26/2010 12:34 PM

Client ID:

Run ID: BTEX3\_100526A

SeqNo: 1978008

Prep Date:

DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.24  | 1.0 | 20      | 0             | 101  | 74-129        | 0             |      |           |      |
| Toluene                    | 20.23  | 1.0 | 20      | 0             | 101  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.14  | 1.0 | 20      | 0             | 106  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 62.06  | 3.0 | 60      | 0             | 103  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.42  | 1.0 | 30      | 0             | 98.1 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.75  | 1.0 | 30      | 0             | 103  | 73-130        | 0             |      |           |      |

MS Sample ID: 1005833-12AMS

Units: µg/Kg

Analysis Date: 5/26/2010 05:59 PM

Client ID:

Run ID: BTEX3\_100526A

SeqNo: 1978030

Prep Date:

DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.15  | 1.0 | 20      | 0             | 101  | 74-129        | 0             |      |           |      |
| Toluene                    | 20.19  | 1.0 | 20      | 0             | 101  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.19  | 1.0 | 20      | 0             | 106  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 62.26  | 3.0 | 60      | 0             | 104  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.09  | 1.0 | 30      | 0             | 100  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.86  | 1.0 | 30      | 0             | 103  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1005833-12AMSD

Units: µg/Kg

Analysis Date: 5/26/2010 06:19 PM

Client ID:

Run ID: BTEX3\_100526A

SeqNo: 1978032

Prep Date:

DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 20.46  | 1.0 | 20      | 0             | 102  | 74-129        | 20.15         | 1.49  | 30        |      |
| Toluene                    | 20.46  | 1.0 | 20      | 0             | 102  | 75-128        | 20.19         | 1.34  | 30        |      |
| Ethylbenzene               | 21.38  | 1.0 | 20      | 0             | 107  | 73-127        | 21.19         | 0.909 | 30        |      |
| Xylenes, Total             | 62.81  | 3.0 | 60      | 0             | 105  | 74-127        | 62.26         | 0.879 | 30        |      |
| Surr: 4-Bromofluorobenzene | 30.02  | 1.0 | 30      | 0             | 100  | 75-131        | 30.09         | 0.225 | 30        |      |
| Surr: Trifluorotoluene     | 31.02  | 1.0 | 30      | 0             | 103  | 73-130        | 30.86         | 0.52  | 30        |      |

The following samples were analyzed in this batch:

1005714-19A

1005714-20A

1005714-21A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1005714  
Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R91911 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-052610-R91911 Units: mg/Kg Analysis Date: 5/26/2010 05:10 PM

Client ID: Run ID: FID-9\_100526A SeqNo: 1981050 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND      | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08616 | 0.0050 | 0.1     | 0             | 86.2 | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-052610-R91911 Units: mg/Kg Analysis Date: 5/26/2010 04:46 PM

Client ID: Run ID: FID-9\_100526A SeqNo: 1981049 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.189   | 0.050  | 1       | 0             | 119  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.09004 | 0.0050 | 0.1     | 0             | 90   | 70-130        | 0             |      |           |      |

MS Sample ID: 1005714-06BMS Units: mg/Kg Analysis Date: 5/26/2010 08:18 PM

Client ID: MW-19 50' Run ID: FID-9\_100526A SeqNo: 1981058 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.126   | 0.050  | 1       | 0             | 113  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08834 | 0.0050 | 0.1     | 0             | 88.3 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005714-06BMSD Units: mg/Kg Analysis Date: 5/26/2010 08:42 PM

Client ID: MW-19 50' Run ID: FID-9\_100526A SeqNo: 1981059 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Gasoline Range Organics    | 1.129   | 0.050  | 1       | 0             | 113  | 70-130        | 1.126         | 0.281 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.08728 | 0.0050 | 0.1     | 0             | 87.3 | 70-130        | 0.08834       | 1.22  | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005714-01B | 1005714-02B | 1005714-03B |
| 1005714-04B | 1005714-05B | 1005714-06B |
| 1005714-07B | 1005714-08B | 1005714-09B |
| 1005714-10B | 1005714-11B | 1005714-12B |
| 1005714-13B | 1005714-14B | 1005714-15B |
| 1005714-16B | 1005714-17B | 1005714-18B |
| 1005714-19B | 1005714-20B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1005714  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R91913 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-052710-R91913 Units: mg/Kg Analysis Date: 5/27/2010 05:25 AM

Client ID: Run ID: FID-9\_100526B SeqNo: 1981090 Prep Date: DF: 1

| Analyte                   | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics   | ND      | 0.050  |         |               |      |               |               |      |           |      |
| Surr:4-Bromofluorobenzene | 0.07634 | 0.0050 | 0.1     | 0             | 76.3 | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-052710-R91913 Units: mg/Kg Analysis Date: 5/27/2010 04:37 AM

Client ID: Run ID: FID-9\_100526B SeqNo: 1981088 Prep Date: DF: 1

| Analyte                   | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics   | 1.102   | 0.050  | 1       | 0             | 110  | 70-130        | 0             |      |           |      |
| Surr:4-Bromofluorobenzene | 0.08168 | 0.0050 | 0.1     | 0             | 81.7 | 70-130        | 0             |      |           |      |

MS Sample ID: 1005714-21BMS Units: mg/Kg Analysis Date: 5/27/2010 06:13 AM

Client ID: MW-20 95' Run ID: FID-9\_100526B SeqNo: 1981092 Prep Date: DF: 1

| Analyte                   | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics   | 1.143   | 0.050  | 1       | 0             | 114  | 70-130        | 0             |      |           |      |
| Surr:4-Bromofluorobenzene | 0.08256 | 0.0050 | 0.1     | 0             | 82.6 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005714-21BMSD Units: mg/Kg Analysis Date: 5/27/2010 06:37 AM

Client ID: MW-20 95' Run ID: FID-9\_100526B SeqNo: 1981093 Prep Date: DF: 1

| Analyte                   | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|---------------------------|---------|--------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Gasoline Range Organics   | 1.135   | 0.050  | 1       | 0             | 113  | 70-130        | 1.143         | 0.78  | 30        |      |
| Surr:4-Bromofluorobenzene | 0.08305 | 0.0050 | 0.1     | 0             | 83   | 70-130        | 0.08256       | 0.593 | 30        |      |

The following samples were analyzed in this batch:

1005714-21B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
 Work Order: 1005714  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: 43322 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS1-052610-43322 Units: mg/Kg Analysis Date: 5/27/2010 07:38 PM  
 Client ID: Run ID: ICS2100\_100527B SeqNo: 1976582 Prep Date: 5/26/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Surr: Selenate (surr) | 47.52  | 1.0 | 50      | 0             | 95   | 85-115        | 0             |      |           |      |

LCS Sample ID: WLCSS1-052610-43322 Units: mg/Kg Analysis Date: 5/27/2010 07:52 PM  
 Client ID: Run ID: ICS2100\_100527B SeqNo: 1976583 Prep Date: 5/26/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 191.3  | 5.0 | 200     | 0             | 95.6 | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 48.82  | 1.0 | 50      | 0             | 97.6 | 85-115        | 0             |      |           |      |

MS Sample ID: 1005714-11BMS Units: mg/Kg Analysis Date: 5/27/2010 11:30 PM  
 Client ID: MW-19 100' Run ID: ICS2100\_100527B SeqNo: 1976597 Prep Date: 5/26/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 290.4  | 4.7  | 94.7    | 205.6         | 89.5 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 45.24  | 0.95 | 47.35   | 0             | 95.5 | 80-120        | 0             |      |           |      |

MS Sample ID: 1005714-20BMS Units: mg/Kg Analysis Date: 5/28/2010 02:54 AM  
 Client ID: MW-20 90' Run ID: ICS2100\_100527B SeqNo: 1976610 Prep Date: 5/26/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 90.04  | 4.6  | 92.76   | 1.827         | 95.1 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 44.7   | 0.93 | 46.38   | 0             | 96.4 | 80-120        | 0             |      |           |      |

MSD Sample ID: 1005714-11BMSD Units: mg/Kg Analysis Date: 5/27/2010 11:45 PM  
 Client ID: MW-19 100' Run ID: ICS2100\_100527B SeqNo: 1976598 Prep Date: 5/26/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 295.3  | 4.7  | 94.7    | 205.6         | 94.7 | 75-125        | 290.4         | 1.69 | 20        |      |
| Surr: Selenate (surr) | 46.45  | 0.95 | 47.35   | 0             | 98.1 | 80-120        | 45.24         | 2.64 | 20        |      |

MSD Sample ID: 1005714-20BMSD Units: mg/Kg Analysis Date: 5/28/2010 03:09 AM  
 Client ID: MW-20 90' Run ID: ICS2100\_100527B SeqNo: 1976611 Prep Date: 5/26/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Chloride              | 88.15  | 4.6  | 92.76   | 1.827         | 93.1 | 75-125        | 90.04         | 2.11  | 20        |      |
| Surr: Selenate (surr) | 44.42  | 0.93 | 46.38   | 0             | 95.8 | 80-120        | 44.7          | 0.645 | 20        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1005714  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: 43322

Instrument ID ICS2100

Method: E300

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005714-01B | 1005714-02B | 1005714-03B |
| 1005714-04B | 1005714-05B | 1005714-06B |
| 1005714-07B | 1005714-08B | 1005714-09B |
| 1005714-10B | 1005714-11B | 1005714-12B |
| 1005714-13B | 1005714-14B | 1005714-15B |
| 1005714-16B | 1005714-17B | 1005714-18B |
| 1005714-19B | 1005714-20B |             |

Client: Navajo Refining Company  
 Work Order: 1005714  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: 43330 Instrument ID ICS3000 Method: E300

MBLK Sample ID: WBLKS1-052810-43330 Units: mg/Kg Analysis Date: 5/29/2010 11:31 AM

Client ID: Run ID: ICS3000\_100529A SeqNo: 1978716 Prep Date: 5/26/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 2.96   | 5.0 |         |               |      |               |               |      |           | J    |
| Surr: Selenate (surr) | 50.69  | 1.0 | 50      | 0             | 101  | 85-115        | 0             |      |           |      |

LCS Sample ID: WLCSS1-052810-43330 Units: mg/Kg Analysis Date: 5/29/2010 11:53 AM

Client ID: Run ID: ICS3000\_100529A SeqNo: 1978717 Prep Date: 5/26/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 200.2  | 5.0 | 200     | 0             | 100  | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 49.62  | 1.0 | 50      | 0             | 99.2 | 85-115        | 0             |      |           |      |

MS Sample ID: 1005898-01AMS Units: mg/Kg Analysis Date: 5/29/2010 01:18 PM

Client ID: Run ID: ICS3000\_100529A SeqNo: 1978720 Prep Date: 5/26/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 125.3  | 4.6  | 92.94   | 33.07         | 99.3 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 47.76  | 0.93 | 46.47   | 0             | 103  | 80-120        | 0             |      |           |      |

MS Sample ID: 1005814-16BMS Units: mg/Kg Analysis Date: 5/29/2010 08:48 PM

Client ID: Run ID: ICS3000\_100529A SeqNo: 1978766 Prep Date: 5/26/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 102.9  | 4.7  | 94.52   | 9.641         | 98.6 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 48.77  | 0.94 | 47.26   | 0             | 103  | 80-120        | 0             |      |           |      |

MSD Sample ID: 1005898-01AMS Units: mg/Kg Analysis Date: 5/29/2010 01:39 PM

Client ID: Run ID: ICS3000\_100529A SeqNo: 1978721 Prep Date: 5/26/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Chloride              | 125    | 4.6  | 92.94   | 33.07         | 98.9 | 75-125        | 125.3         | 0.282 | 20        |      |
| Surr: Selenate (surr) | 47.66  | 0.93 | 46.47   | 0             | 103  | 80-120        | 47.76         | 0.214 | 20        |      |

MSD Sample ID: 1005814-16BMSD Units: mg/Kg Analysis Date: 5/29/2010 09:10 PM

Client ID: Run ID: ICS3000\_100529A SeqNo: 1978767 Prep Date: 5/26/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD    | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|---------|-----------|------|
| Chloride              | 102.9  | 4.7  | 94.52   | 9.641         | 98.6 | 75-125        | 102.9         | 0.00919 | 20        |      |
| Surr: Selenate (surr) | 48.71  | 0.94 | 47.26   | 0             | 103  | 80-120        | 48.77         | 0.136   | 20        |      |

The following samples were analyzed in this batch:

1005714-21B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

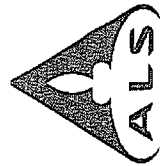
**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**WorkOrder:** 1005714

## **QUALIFIERS, ACRONYMS, UNITS**

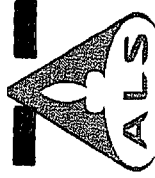
| <u>Qualifier</u> | <u>Description</u>                                                        |
|------------------|---------------------------------------------------------------------------|
| *                | Value exceeds Regulatory Limit                                            |
| a                | Not accredited                                                            |
| B                | Analyte detected in the associated Method Blank above the Reporting Limit |
| E                | Value above quantitation range                                            |
| H                | Analyzed outside of Holding Time                                          |
| J                | Analyte detected below quantitation limit                                 |
| M                | Manually integrated, see raw data for justification                       |
| n                | Not offered for accreditation                                             |
| ND               | Not Detected at the Reporting Limit                                       |
| O                | Sample amount is > 4 times amount spiked                                  |
| P                | Dual Column results percent difference > 40%                              |
| R                | RPD above laboratory control limit                                        |
| S                | Spike Recovery outside laboratory control limits                          |
| U                | Analyzed but not detected above the MDL                                   |

| <u>Acronym</u> | <u>Description</u>                  |
|----------------|-------------------------------------|
| DUP            | Method Duplicate                    |
| LCS            | Laboratory Control Sample           |
| LCSD           | Laboratory Control Sample Duplicate |
| MBLK           | Method Blank                        |
| MDL            | Method Detection Limit              |
| MQL            | Method Quantitation Limit           |
| MS             | Matrix Spike                        |
| MSD            | Matrix Spike Duplicate              |
| PDS            | Post Digestion Spike                |
| PQL            | Practical Quantitation Limit        |
| SD             | Serial Dilution                     |
| SDL            | Sample Detection Limit              |
| TRRP           | Texas Risk Reduction Program        |

| <u>Units Reported</u> | <u>Description</u>      |
|-----------------------|-------------------------|
| mg/Kg                 | Milligrams per Kilogram |
| mg/L                  | Milligrams per Liter    |



| Customer Information                                                                                                                                                      |                    |         |         | Project Information                               |       |           |           | ALS Project Manager: ALS Work Order #: 1005714 |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|---------|---------------------------------------------------|-------|-----------|-----------|------------------------------------------------|---|---|---|---------------------------------|---|---|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|--|
| Parameter/Method Request for Analysis                                                                                                                                     |                    |         |         | Project Information                               |       |           |           | Parameter/Method Request for Analysis          |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| Project Name                                                                                                                                                              |                    |         |         | Lea Refinery New Wells                            |       |           |           | BTEX (8021)                                    |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| Project Number                                                                                                                                                            |                    |         |         | NAV-10-003                                        |       |           |           | GRO (8015M)                                    |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| Bill To Company                                                                                                                                                           |                    |         |         | Navajo Refining Company                           |       |           |           | DRO (8015M)                                    |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| Invoice Attn                                                                                                                                                              |                    |         |         | Darrell Moore                                     |       |           |           | ORO (8015M)                                    |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| Address                                                                                                                                                                   |                    |         |         | P.O. Box 159                                      |       |           |           | chloride                                       |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| City/State/Zip                                                                                                                                                            |                    |         |         | Artesia, NM 88211                                 |       |           |           |                                                |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| Phone                                                                                                                                                                     |                    |         |         | (505) 748-3311                                    |       |           |           |                                                |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| Fax                                                                                                                                                                       |                    |         |         | (505) 746-5421                                    |       |           |           |                                                |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| e-Mail Address                                                                                                                                                            |                    |         |         | dghoyer@SESI-NM.com                               |       |           |           |                                                |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| No.                                                                                                                                                                       | Sample Description | Date    | Time    | Matrix                                            | Pres. | # Bottles | Check Box | A                                              | B | C | D | E                               | F | G | H | I                                                                                                                                                                                                                   | J | Hold |  |
| 1                                                                                                                                                                         | MW-18 90'          | 5/13/10 | 5/13/10 | Seal                                              | 8     | 2         |           | X                                              | X | X | X | X                               |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| 2                                                                                                                                                                         | MW-19 10'          | 5/13/10 | 0840    |                                                   |       |           |           |                                                |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| 3                                                                                                                                                                         | MW-19 20'          | 5/19/10 | 0850    |                                                   |       |           |           |                                                |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| 4                                                                                                                                                                         | MW-19 30'          |         | 0905    |                                                   |       |           |           |                                                |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| 5                                                                                                                                                                         | MW-19 40'          |         | 0920    |                                                   |       |           |           |                                                |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| 6                                                                                                                                                                         | MW-19 50'          |         | 0930    |                                                   |       |           |           |                                                |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| 7                                                                                                                                                                         | MW-19 60'          |         | 0940    |                                                   |       |           |           |                                                |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| 8                                                                                                                                                                         | MW-19 70'          |         | 0950    |                                                   |       |           |           |                                                |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| 9                                                                                                                                                                         | MW-19 80'          | 5/19/10 | 1005    | Seal                                              | 8     | 2         |           | X                                              | X | X | X | X                               |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| 10                                                                                                                                                                        |                    |         |         |                                                   |       |           |           |                                                |   |   |   |                                 |   |   |   |                                                                                                                                                                                                                     |   |      |  |
| Sample(s) Please Print & Sign: <i>D. Boyer</i>                                                                                                                            |                    |         |         | Shipment Method: Fed Ex                           |       |           |           | Required Turnaround Time: 15 Wks               |   |   |   | Check Box: Other                |   |   |   | Results Due Date: 5/24/10                                                                                                                                                                                           |   |      |  |
| Relinquished by: <i>D. Boyer</i>                                                                                                                                          |                    |         |         | Received by (Laboratory): <i>ASTH 5/21/10 900</i> |       |           |           | Cooler ID: <i>5/21/10 900</i>                  |   |   |   | Cooler Temp: <i>5/21/10 900</i> |   |   |   | QC Package: (Check One Box Below) <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> Level IV SW646/CLP <input type="checkbox"/> Other |   |      |  |
| Relinquished by: <i>D. Boyer</i>                                                                                                                                          |                    |         |         | Received by (Laboratory): <i>ASTH 5/21/10 900</i> |       |           |           | Cooler ID: <i>5/21/10 900</i>                  |   |   |   | Cooler Temp: <i>5/21/10 900</i> |   |   |   | QC Package: (Check One Box Below) <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> Level IV SW646/CLP <input type="checkbox"/> Other |   |      |  |
| Logged by (Laboratory):                                                                                                                                                   |                    |         |         | Time: 5/20/10 1600                                |       |           |           | Time: 5/21/10 900                              |   |   |   | Time: 5/21/10 900               |   |   |   | Time: 5/21/10 900                                                                                                                                                                                                   |   |      |  |
| Preservative Key: 1-HCl, 2-HNO <sub>3</sub> , 3-H <sub>2</sub> SO <sub>4</sub> , 4-NaOH, 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 6-NaHSO <sub>3</sub> , 7-Other |                    |         |         | Time: 5/20/10 1600                                |       |           |           | Time: 5/21/10 900                              |   |   |   | Time: 5/21/10 900               |   |   |   | Time: 5/21/10 900                                                                                                                                                                                                   |   |      |  |



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**Chain of Custody Form**

**ALS Laboratory Group**  
3552 128th Ave.  
Holland, MI 49424-9263  
Tel: +1 616 399 6070  
Fax: +1 616 399 6185

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| Customer Information |                    |         |      | Project Information     |       |           |   | ALS Project Manager: <u>ALS Work Order #: 005714</u> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|----------------------|--------------------|---------|------|-------------------------|-------|-----------|---|------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Project Name         |                    |         |      | Lea Refinery New Wells  |       |           |   | Parameter/Method Request for Analysis                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| Project Number       |                    |         |      | NAV-10-003              |       |           |   | A BTEX (8021)                                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| Bill To Company      |                    |         |      | Navajo Refining Company |       |           |   | B GRO (8015M)                                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| Invoice Attn         |                    |         |      | Darrell Moore           |       |           |   | C DRO (8015M)                                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| Address              |                    |         |      | P.O. Box 159            |       |           |   | D QRO (8015M)                                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| City/State/Zip       |                    |         |      | Artesia, NM 88211       |       |           |   | E <u>Cheride</u>                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| Phone                |                    |         |      | (505) 748-3311          |       |           |   | F                                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| Fax                  |                    |         |      | (505) 746-5421          |       |           |   | G                                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| e-Mail Address       |                    |         |      | dgboyer@SESLNM.com      |       |           |   | H                                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| No.                  | Sample Description | Date    | Time | Matrix                  | Pres. | # Bottles | A | B                                                    | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Hold. |
| 1                    | MW-19 90'          | 5/19/10 | 1030 | Soil                    | 8     | 2         | X | X                                                    | X | X | X |   |   |   |   |   |   |   |   |   |   |   |       |
| 2                    | MW-19 100'         | 5/19/10 | 1040 |                         |       |           |   |                                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| 3                    | MW-20 10'          | 5/20/10 | 0815 |                         |       |           |   |                                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| 4                    | 20'                |         | 0825 |                         |       |           |   |                                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| 5                    | 30'                |         | 0855 |                         |       |           |   |                                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| 6                    | 40'                |         | 0915 |                         |       |           |   |                                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| 7                    | 50'                |         | 0925 |                         |       |           |   |                                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| 8                    | 60'                |         | 0940 |                         |       |           |   |                                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| 9                    | 70'                |         | 0955 |                         |       |           |   |                                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| 10                   | MW-20 80'          | 5/20/10 | 1020 | Soil                    | 8     | 2         | X | X                                                    | X | X | X |   |   |   |   |   |   |   |   |   |   |   |       |

Sampler(s) Please Print & Sign: D Boyer

Relinquished by: D Boyer Date: 5/20/10 Time: 1600

Relinquished by: AK Boyer Date: 5/20/10 Time: 1600

Received by: AK Boyer Date: 5/20/10 Time: 1600

Received by (Laboratory): AK Boyer Date: 5/20/10 Time: 1600

Checked by (Laboratory): AK Boyer Date: 5/20/10 Time: 1600

Preservative Key: 1-HCl, 2-HNO<sub>3</sub>, 3-H<sub>2</sub>SO<sub>4</sub>, 4-NaOH, 5-Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, 6-NaHSO<sub>3</sub>, 7-Other: 8-4°C, 9-5035

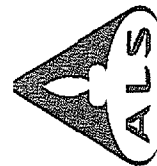
QC Package: (Check One Box Below) ☒ Level II Std QC ☐ TRRP Check List

☐ Level III Std QC/Raw Data ☐ TRRP Level IV

☐ Level IV SWD45/CLP ☐ Other

Notes: 10 Day TAT. Co Dave Boyer

Results Due Date: 5/20/10



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10450 Standcliff Rd., Suite 210  
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# Chain of Custody Form

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Page 3 of 3

| Customer Information |                    |         |      | Project Information     |       |           |   | ALS Project Manager: [Signature]      |   |   |   |   |   |   |   |   |      |  |  | ALS Work Order #: 005714 |  |  |  |  |  |  |  |  |  |  |  |
|----------------------|--------------------|---------|------|-------------------------|-------|-----------|---|---------------------------------------|---|---|---|---|---|---|---|---|------|--|--|--------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Project Name         |                    |         |      | Lea Refinery New Wells  |       |           |   | Parameter/Method Request for Analysis |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Project Number       |                    |         |      | NAV-10-003              |       |           |   | A BTEX (8021)                         |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Bill To Company      |                    |         |      | Navajo Refining Company |       |           |   | B GRO (8015M)                         |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Invoice Attn         |                    |         |      | Darrell Moore           |       |           |   | C DRO (8015M)                         |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Address              |                    |         |      | P.O. Box 159            |       |           |   | D ORO (8015M)                         |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| City/State/Zip       |                    |         |      | Artesia, NM 88211       |       |           |   | E Antions (300) Cl                    |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Phone                |                    |         |      | (505) 746-3311          |       |           |   | F                                     |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| Fax                  |                    |         |      | (505) 746-5421          |       |           |   | G                                     |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| e-Mail Address       |                    |         |      | dlgboyer@SES-NM.com     |       |           |   | H                                     |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| No.                  | Sample Description | Date    | Time | Matrix                  | Pres. | # Bottles | A | B                                     | C | D | E | F | G | H | I | J | Hold |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 1                    | MW-20 90'          | 5/20/10 | 1030 | Soil                    | 4     | 2         | X | X                                     | X | X | X |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 2                    | MW-20 95'          | 5/20/10 | 1040 | Soil                    | 4     | 2         | X | X                                     | X | X | X |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 3                    | TRIP Blank 04210-B | -       | -    | H <sub>2</sub> O        | 1,8   | 2         | X |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 4                    |                    |         |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 5                    |                    |         |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 6                    |                    |         |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 7                    |                    |         |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 8                    |                    |         |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 9                    |                    |         |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |
| 10                   |                    |         |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |

Shipper Method: **FedEx**

Required Turnaround Time: (Check Box) ☒ 5 Wk Days ☐ 10 Wk Days ☐ 15 Wk Days ☐ 20 Wk Days

QC Package: (Check One Box Below) ☒ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW/846/CLP ☐ Other

Notes: 10 Day TAT. Co Dave Boyer

Sampler(s) Please Print & Sign: **D. Boyer**

Relinquished by: **D. Boyer** Date: **5/20/10** Time: **1600**

Relinquished by: **D. Boyer** Date: **5/20/10** Time: **1600**

Logged by (Laboratory): **SES** Date: **5/20/10** Time: **1600**

Preservative Key: 1-HCl, 2-HNO<sub>3</sub>, 3-H<sub>2</sub>SO<sub>4</sub>, 4-NaOH, 5-Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, 6-NaHSO<sub>3</sub>, 7-Other: **8-4°C**, 9-5035

W.O. # 1065714

This portion can be removed for Recipient's records.

Date 5/20/10 FedEx Tracking Number 869809950390

Sender's Name B. Boyer Phone 575 890-7765

Company SEED

Address 703 E. Clinton Dept./Floor/Suite/Room

City Hobbs State NM ZIP 88240

Our Internal Billing Reference NAU-1P-003



**ALS Laboratory Group**  
10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

| CUSTODY SEAL          |                   | Seal Broken By:                           |
|-----------------------|-------------------|-------------------------------------------|
| Date: <u>5/20/10</u>  | Time: <u>1600</u> | <u>[Signature]</u><br>Date <u>5/21/10</u> |
| Name: <u>B. Boyer</u> |                   |                                           |
| Company: <u>SEED</u>  |                   |                                           |



Sample Receipt Checklist

Client Name: **NAVAJO REFINING**

Date/Time Received: **21-May-10 09:00**

Work Order: **1005714**

Received by: **RDH**

Checklist completed by Raymond N Gamboa  
eSignature

21-May-10  
Date

Reviewed by: \_\_\_\_\_  
eSignature Date

Matrices: Soil  
Carrier name: FedEx

|                                                         |                                         |                             |                                                 |
|---------------------------------------------------------|-----------------------------------------|-----------------------------|-------------------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                 |
| Temperature(s)/Thermometer(s):                          | <u>2.7c</u> <u>002</u>                  |                             |                                                 |
| Cooler(s)/Kit(s):                                       | <u>3308</u>                             |                             |                                                 |
| Water - VOA vials have zero headspace?                  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/>         |
| pH adjusted?                                            | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/>         |
| pH adjusted by:                                         | _____                                   |                             |                                                 |

Login Notes:

Client Contacted: \_\_\_\_\_ Date Contacted: \_\_\_\_\_ Person Contacted: \_\_\_\_\_  
Contacted By: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments:

CorrectiveAction:

# ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



## Environmental Division

09-Jun-2010

Darrell Moore  
Navajo Refining Company  
PO Box 159  
Artesia, NM 88211

Tel: (575) 748-6733  
Fax: (575) 746-5421

Re: Lea Refinery New Wells

Work Order: **1005814**

Dear Darrell,

ALS Laboratory Group received 45 samples on 25-May-2010 09:45 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 75.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Tiffany Van

JayLynn F Thibault  
Project Manager



Certificate No: T104704231-09A-TX

### ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

[www.alsglobal.com](http://www.alsglobal.com) [www.elabi.com](http://www.elabi.com)

A Campbell Brothers Limited Company

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Work Order:** 1005814

**Work Order Sample Summary**

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1005814-01         | MW-21 10'               | Soil          |                   | 5/21/2010 07:55        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-02         | MW-21 20'               | Soil          |                   | 5/21/2010 08:15        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-03         | MW-21 30'               | Soil          |                   | 5/21/2010 08:25        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-04         | MW-21 40'               | Soil          |                   | 5/21/2010 08:35        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-05         | MW-21 50'               | Soil          |                   | 5/21/2010 08:45        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-06         | MW-21 60'               | Soil          |                   | 5/21/2010 09:00        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-07         | MW-21 70'               | Soil          |                   | 5/21/2010 09:10        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-08         | MW-21 80'               | Soil          |                   | 5/21/2010 09:20        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-09         | MW-21 90'               | Soil          |                   | 5/21/2010 09:30        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-10         | MW-21 95'               | Soil          |                   | 5/21/2010 09:40        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-11         | MW-28 10'               | Soil          |                   | 5/22/2010 08:35        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-12         | MW-28 20'               | Soil          |                   | 5/22/2010 08:45        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-13         | MW-28 30'               | Soil          |                   | 5/22/2010 08:55        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-14         | MW-28 40'               | Soil          |                   | 5/22/2010 09:05        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-15         | MW-28 50'               | Soil          |                   | 5/22/2010 09:15        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-16         | MW-28 60'               | Soil          |                   | 5/22/2010 09:35        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-17         | MW-28 70'               | Soil          |                   | 5/22/2010 09:50        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-18         | MW-28 80'               | Soil          |                   | 5/22/2010 10:00        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-19         | MW-28 90'               | Soil          |                   | 5/22/2010 10:10        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-20         | MW-28 100'              | Soil          |                   | 5/22/2010 10:20        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-21         | MW-28 105'              | Soil          |                   | 5/22/2010 10:25        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-22         | MW-15 10'               | Soil          |                   | 5/22/2010 14:40        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-23         | MW-15 20'               | Soil          |                   | 5/22/2010 14:50        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-24         | MW-15 30'               | Soil          |                   | 5/22/2010 15:15        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-25         | MW-15 40'               | Soil          |                   | 5/22/2010 15:25        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-26         | MW-15 55'               | Soil          |                   | 5/22/2010 15:40        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-27         | MW-15 60'               | Soil          |                   | 5/22/2010 16:00        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-28         | MW-15 70'               | Soil          |                   | 5/22/2010 16:15        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-29         | MW-15 80'               | Soil          |                   | 5/22/2010 16:25        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-30         | MW-15 90'               | Soil          |                   | 5/22/2010 16:35        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-31         | MW-15 100'              | Soil          |                   | 5/22/2010 16:45        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-32         | MW-15 105'              | Soil          |                   | 5/23/2010 08:05        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-33         | MW-17 10'               | Soil          |                   | 5/23/2010 13:05        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-34         | MW-17 20'               | Soil          |                   | 5/23/2010 13:20        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-35         | MW-17 30'               | Soil          |                   | 5/23/2010 13:35        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-36         | MW-17 40'               | Soil          |                   | 5/23/2010 13:45        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-37         | MW-17 50'               | Soil          |                   | 5/23/2010 13:55        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-38         | MW-17 60'               | Soil          |                   | 5/23/2010 14:10        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-39         | MW-17 70'               | Soil          |                   | 5/23/2010 14:20        | 5/25/2010 09:45      | <input type="checkbox"/> |

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Work Order:** 1005814

## Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1005814-40         | MW-17 80'               | Soil          |                   | 5/23/2010 14:30        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-41         | MW-17 90'               | Soil          |                   | 5/23/2010 14:40        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-42         | MW-17 100'              | Soil          |                   | 5/23/2010 14:50        | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-43         | Trip Blank 042110-20    | Water         |                   | 5/23/2010              | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-44         | Trip Blank 051110-64    | Water         |                   | 5/23/2010              | 5/25/2010 09:45      | <input type="checkbox"/> |
| 1005814-45         | MW-17                   | Soil          |                   | 5/23/2010 13:00        | 5/25/2010 09:45      | <input type="checkbox"/> |

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Work Order:** 1005814

**Case Narrative**

TPH DRO/ORO (Samples 1005814-26,35,36,37,38) recovery high out of control limits for surrogate. Samples are non-detect.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-21 10'

Lab ID: 1005814-01

Collection Date: 5/21/2010 07:55 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/29/2010 09:58 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/29/2010 09:58 PM |
| Surr: 2-Fluorobiphenyl         | 123    |      | 70-130         | %REC  | 1                    | 5/29/2010 09:58 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 07:01 AM |
| Surr: 4-Bromofluorobenzene     | 80.8   |      | 70-130         | %REC  | 1                    | 5/27/2010 07:01 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 01:09 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 01:09 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 01:09 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 01:09 AM |
| Surr: 4-Bromofluorobenzene     | 85.9   |      | 75-131         | %REC  | 1                    | 5/27/2010 01:09 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 5/27/2010 01:09 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 5.52   |      | 4.73           | mg/Kg | 1                    | 5/29/2010 02:43 PM |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                    | 5/29/2010 02:43 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**Client:** Navajo Refining Company

**Project:** Lea Refinery New Wells

**Work Order:** 1005814

**Sample ID:** MW-21 20'

**Lab ID:** 1005814-02

**Collection Date:** 5/21/2010 08:15 AM

**Matrix:** SOIL

| Analyses                       | Result | Qual | Report<br>Limit | Units | Dilution<br>Factor   | Date Analyzed      |
|--------------------------------|--------|------|-----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                 |       |                      |                    |
|                                |        |      | <b>SW8015M</b>  |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7             | mg/Kg | 1                    | 5/29/2010 10:17 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4             | mg/Kg | 1                    | 5/29/2010 10:17 PM |
| Surr: 2-Fluorobiphenyl         | 88.6   |      | 70-130          | %REC  | 1                    | 5/29/2010 10:17 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                 |       |                      |                    |
|                                |        |      | <b>SW8015</b>   |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050           | mg/Kg | 1                    | 5/27/2010 07:25 AM |
| Surr: 4-Bromofluorobenzene     | 78.7   |      | 70-130          | %REC  | 1                    | 5/27/2010 07:25 AM |
| <b>BTEX</b>                    |        |      |                 |       |                      |                    |
|                                |        |      | <b>SW8021B</b>  |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010          | mg/Kg | 1                    | 5/27/2010 02:09 AM |
| Toluene                        | ND     |      | 0.0010          | mg/Kg | 1                    | 5/27/2010 02:09 AM |
| Ethylbenzene                   | ND     |      | 0.0010          | mg/Kg | 1                    | 5/27/2010 02:09 AM |
| Xylenes, Total                 | ND     |      | 0.0030          | mg/Kg | 1                    | 5/27/2010 02:09 AM |
| Surr: 4-Bromofluorobenzene     | 89.2   |      | 75-131          | %REC  | 1                    | 5/27/2010 02:09 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130          | %REC  | 1                    | 5/27/2010 02:09 AM |
| <b>ANIONS</b>                  |        |      |                 |       |                      |                    |
|                                |        |      | <b>E300</b>     |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 7.76   |      | 4.89            | mg/Kg | 1                    | 5/29/2010 03:47 PM |
| Surr: Selenate (surr)          | 103    |      | 85-115          | %REC  | 1                    | 5/29/2010 03:47 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-21 30'

Lab ID: 1005814-03

Collection Date: 5/21/2010 08:25 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/29/2010 10:36 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/29/2010 10:36 PM |
| Surr: 2-Fluorobiphenyl         | 86.6   |      | 70-130         | %REC  | 1                    | 5/29/2010 10:36 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 07:49 AM |
| Surr: 4-Bromofluorobenzene     | 80.1   |      | 70-130         | %REC  | 1                    | 5/27/2010 07:49 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 02:29 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 02:29 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 02:29 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 02:29 AM |
| Surr: 4-Bromofluorobenzene     | 90.2   |      | 75-131         | %REC  | 1                    | 5/27/2010 02:29 AM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 5/27/2010 02:29 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 5.80   |      | 4.95           | mg/Kg | 1                    | 5/29/2010 04:09 PM |
| Surr: Selenate (surr)          | 100    |      | 85-115         | %REC  | 1                    | 5/29/2010 04:09 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-21 40'

Lab ID: 1005814-04

Collection Date: 5/21/2010 08:35 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/29/2010 11:34 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/29/2010 11:34 PM |
| Surr: 2-Fluorobiphenyl         | 103    |      | 70-130         | %REC  | 1                    | 5/29/2010 11:34 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 08:13 AM |
| Surr: 4-Bromofluorobenzene     | 78.3   |      | 70-130         | %REC  | 1                    | 5/27/2010 08:13 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 02:49 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 02:49 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 02:49 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 02:49 AM |
| Surr: 4-Bromofluorobenzene     | 88.5   |      | 75-131         | %REC  | 1                    | 5/27/2010 02:49 AM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 5/27/2010 02:49 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.88           | mg/Kg | 1                    | 5/29/2010 04:30 PM |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                    | 5/29/2010 04:30 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-21 50'

Lab ID: 1005814-05

Collection Date: 5/21/2010 08:45 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/29/2010 11:54 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/29/2010 11:54 PM |
| Surr: 2-Fluorobiphenyl         | 96.6   |      | 70-130         | %REC  | 1                    | 5/29/2010 11:54 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 08:37 AM |
| Surr: 4-Bromofluorobenzene     | 78.9   |      | 70-130         | %REC  | 1                    | 5/27/2010 08:37 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:09 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:09 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:09 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 03:09 AM |
| Surr: 4-Bromofluorobenzene     | 90.1   |      | 75-131         | %REC  | 1                    | 5/27/2010 03:09 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 5/27/2010 03:09 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.74           | mg/Kg | 1                    | 5/29/2010 04:52 PM |
| Surr: Selenate (surr)          | 99.9   |      | 85-115         | %REC  | 1                    | 5/29/2010 04:52 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-21 60'

Lab ID: 1005814-06

Collection Date: 5/21/2010 09:00 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 12:14 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 12:14 AM |
| Surr: 2-Fluorobiphenyl         | 92.0   |      | 70-130         | %REC  | 1                    | 5/30/2010 12:14 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 09:49 AM |
| Surr: 4-Bromofluorobenzene     | 78.4   |      | 70-130         | %REC  | 1                    | 5/27/2010 09:49 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:29 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:29 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:29 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 03:29 AM |
| Surr: 4-Bromofluorobenzene     | 88.3   |      | 75-131         | %REC  | 1                    | 5/27/2010 03:29 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 5/27/2010 03:29 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.81           | mg/Kg | 1                    | 5/29/2010 05:13 PM |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                    | 5/29/2010 05:13 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-21 70'

Lab ID: 1005814-07

Collection Date: 5/21/2010 09:10 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 12:33 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 12:33 AM |
| Surr: 2-Fluorobiphenyl         | 97.1   |      | 70-130         | %REC  | 1                    | 5/30/2010 12:33 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 10:12 AM |
| Surr: 4-Bromofluorobenzene     | 80.3   |      | 70-130         | %REC  | 1                    | 5/27/2010 10:12 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:29 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:29 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:29 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 04:29 AM |
| Surr: 4-Bromofluorobenzene     | 89.6   |      | 75-131         | %REC  | 1                    | 5/27/2010 04:29 AM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 5/27/2010 04:29 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.91           | mg/Kg | 1                    | 5/29/2010 04:28 PM |
| Surr: Selenate (surr)          | 106    |      | 85-115         | %REC  | 1                    | 5/29/2010 04:28 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-21 80'

Lab ID: 1005814-08

Collection Date: 5/21/2010 09:20 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 01:31 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 01:31 AM |
| Surr: 2-Fluorobiphenyl         | 103    |      | 70-130         | %REC  | 1                    | 5/30/2010 01:31 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 10:36 AM |
| Surr: 4-Bromofluorobenzene     | 76.9   |      | 70-130         | %REC  | 1                    | 5/27/2010 10:36 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:49 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:49 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:49 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 04:49 AM |
| Surr: 4-Bromofluorobenzene     | 85.6   |      | 75-131         | %REC  | 1                    | 5/27/2010 04:49 AM |
| Surr: Trifluorotoluene         | 99.2   |      | 73-130         | %REC  | 1                    | 5/27/2010 04:49 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.87           | mg/Kg | 1                    | 5/29/2010 04:49 PM |
| Surr: Selenate (surr)          | 105    |      | 85-115         | %REC  | 1                    | 5/29/2010 04:49 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-21 90'

Lab ID: 1005814-09

Collection Date: 5/21/2010 09:30 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor             | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                             |                     |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: <b>5/28/2010</b> | Analyst: <b>KMB</b> |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                           | 5/30/2010 01:50 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                           | 5/30/2010 01:50 AM  |
| Surr: 2-Fluorobiphenyl         | 93.5   |      | 70-130         | %REC  | 1                           | 5/30/2010 01:50 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                             |                     |
|                                |        |      | <b>SW8015</b>  |       |                             | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                           | 5/27/2010 11:00 AM  |
| Surr: 4-Bromofluorobenzene     | 80.1   |      | 70-130         | %REC  | 1                           | 5/27/2010 11:00 AM  |
| <b>BTEX</b>                    |        |      |                |       |                             |                     |
|                                |        |      | <b>SW8021B</b> |       |                             | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                           | 5/27/2010 05:08 AM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                           | 5/27/2010 05:08 AM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                           | 5/27/2010 05:08 AM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                           | 5/27/2010 05:08 AM  |
| Surr: 4-Bromofluorobenzene     | 84.9   |      | 75-131         | %REC  | 1                           | 5/27/2010 05:08 AM  |
| Surr: Trifluorotoluene         | 99.1   |      | 73-130         | %REC  | 1                           | 5/27/2010 05:08 AM  |
| <b>ANIONS</b>                  |        |      |                |       |                             |                     |
|                                |        |      | <b>E300</b>    |       | Prep Date: <b>5/26/2010</b> | Analyst: <b>IGF</b> |
| Chloride                       | 6.16   |      | 4.90           | mg/Kg | 1                           | 5/29/2010 05:11 PM  |
| Surr: Selenate (surr)          | 106    |      | 85-115         | %REC  | 1                           | 5/29/2010 05:11 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-21 95'  
**Collection Date:** 5/21/2010 09:40 AM

**Work Order:** 1005814  
**Lab ID:** 1005814-10  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 02:10 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 02:10 AM |
| Surr: 2-Fluorobiphenyl         | 99.8   |      | 70-130         | %REC  | 1                    | 5/30/2010 02:10 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 11:24 AM |
| Surr: 4-Bromofluorobenzene     | 79.0   |      | 70-130         | %REC  | 1                    | 5/27/2010 11:24 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 05:28 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 05:28 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 05:28 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 05:28 AM |
| Surr: 4-Bromofluorobenzene     | 84.4   |      | 75-131         | %REC  | 1                    | 5/27/2010 05:28 AM |
| Surr: Trifluorotoluene         | 97.9   |      | 73-130         | %REC  | 1                    | 5/27/2010 05:28 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 27.6   |      | 4.90           | mg/Kg | 1                    | 5/29/2010 05:33 PM |
| Surr: Selenate (surr)          | 111    |      | 85-115         | %REC  | 1                    | 5/29/2010 05:33 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company  
 Project: Lea Refinery New Wells  
 Sample ID: MW-28 10'  
 Collection Date: 5/22/2010 08:35 AM

Work Order: 1005814  
 Lab ID: 1005814-11  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 02:29 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 02:29 AM |
| Surr: 2-Fluorobiphenyl         | 94.9   |      | 70-130         | %REC  | 1                    | 5/30/2010 02:29 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 11:48 AM |
| Surr: 4-Bromofluorobenzene     | 77.4   |      | 70-130         | %REC  | 1                    | 5/27/2010 11:48 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 05:48 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 05:48 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 05:48 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 05:48 AM |
| Surr: 4-Bromofluorobenzene     | 84.7   |      | 75-131         | %REC  | 1                    | 5/27/2010 05:48 AM |
| Surr: Trifluorotoluene         | 97.9   |      | 73-130         | %REC  | 1                    | 5/27/2010 05:48 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 12.1   |      | 4.76           | mg/Kg | 1                    | 5/29/2010 05:54 PM |
| Surr: Selenate (surr)          | 105    |      | 85-115         | %REC  | 1                    | 5/29/2010 05:54 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 20'

Lab ID: 1005814-12

Collection Date: 5/22/2010 08:45 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 02:48 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 02:48 AM |
| Surr: 2-Fluorobiphenyl         | 99.7   |      | 70-130         | %REC  | 1                    | 5/30/2010 02:48 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 12:12 PM |
| Surr: 4-Bromofluorobenzene     | 79.8   |      | 70-130         | %REC  | 1                    | 5/27/2010 12:12 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 06:08 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 06:08 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 06:08 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 06:08 AM |
| Surr: 4-Bromofluorobenzene     | 87.7   |      | 75-131         | %REC  | 1                    | 5/27/2010 06:08 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 5/27/2010 06:08 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 34.9   |      | 4.85           | mg/Kg | 1                    | 5/29/2010 06:16 PM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 5/29/2010 06:16 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 30'

Lab ID: 1005814-13

Collection Date: 5/22/2010 08:55 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 03:08 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 03:08 AM |
| Surr: 2-Fluorobiphenyl         | 88.6   |      | 70-130         | %REC  | 1                    | 5/30/2010 03:08 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 12:36 PM |
| Surr: 4-Bromofluorobenzene     | 79.5   |      | 70-130         | %REC  | 1                    | 5/27/2010 12:36 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 06:28 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 06:28 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 06:28 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 06:28 AM |
| Surr: 4-Bromofluorobenzene     | 86.4   |      | 75-131         | %REC  | 1                    | 5/27/2010 06:28 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 5/27/2010 06:28 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 32.1   |      | 4.66           | mg/Kg | 1                    | 5/29/2010 06:38 PM |
| Surr: Selenate (surr)          | 106    |      | 85-115         | %REC  | 1                    | 5/29/2010 06:38 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 40'

Lab ID: 1005814-14

Collection Date: 5/22/2010 09:05 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 03:27 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 03:27 AM |
| Surr: 2-Fluorobiphenyl         | 101    |      | 70-130         | %REC  | 1                    | 5/30/2010 03:27 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 01:00 PM |
| Surr: 4-Bromofluorobenzene     | 78.8   |      | 70-130         | %REC  | 1                    | 5/27/2010 01:00 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 06:48 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 06:48 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 06:48 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 06:48 AM |
| Surr: 4-Bromofluorobenzene     | 85.7   |      | 75-131         | %REC  | 1                    | 5/27/2010 06:48 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 5/27/2010 06:48 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 31.0   |      | 4.84           | mg/Kg | 1                    | 5/29/2010 07:00 PM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 5/29/2010 07:00 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 50'

Lab ID: 1005814-15

Collection Date: 5/22/2010 09:15 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 03:46 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 03:46 AM |
| Surr: 2-Fluorobiphenyl         | 105    |      | 70-130         | %REC  | 1                    | 5/30/2010 03:46 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 01:24 PM |
| Surr: 4-Bromofluorobenzene     | 80.4   |      | 70-130         | %REC  | 1                    | 5/27/2010 01:24 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 07:08 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 07:08 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 07:08 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 07:08 AM |
| Surr: 4-Bromofluorobenzene     | 89.9   |      | 75-131         | %REC  | 1                    | 5/27/2010 07:08 AM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 5/27/2010 07:08 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 34.3   |      | 4.81           | mg/Kg | 1                    | 5/29/2010 08:05 PM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 5/29/2010 08:05 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 60'

Lab ID: 1005814-16

Collection Date: 5/22/2010 09:35 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 05:04 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 05:04 AM |
| Surr: 2-Fluorobiphenyl         | 103    |      | 70-130         | %REC  | 1                    | 5/30/2010 05:04 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 08:06 PM |
| Surr: 4-Bromofluorobenzene     | 83.0   |      | 70-130         | %REC  | 1                    | 5/27/2010 08:06 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 07:28 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 07:28 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 07:28 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 07:28 AM |
| Surr: 4-Bromofluorobenzene     | 85.0   |      | 75-131         | %REC  | 1                    | 5/27/2010 07:28 AM |
| Surr: Trifluorotoluene         | 100    |      | 73-130         | %REC  | 1                    | 5/27/2010 07:28 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 5/26/2010 | Analyst: IGF       |
| Chloride                       | 9.64   |      | 4.73           | mg/Kg | 1                    | 5/29/2010 08:26 PM |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 5/29/2010 08:26 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 70'

Lab ID: 1005814-17

Collection Date: 5/22/2010 09:50 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 04:45 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 04:45 AM |
| Surr: 2-Fluorobiphenyl         | 97.0   |      | 70-130         | %REC  | 1                    | 5/30/2010 04:45 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 09:18 PM |
| Surr: 4-Bromofluorobenzene     | 80.9   |      | 70-130         | %REC  | 1                    | 5/27/2010 09:18 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 08:27 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 08:27 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 08:27 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 08:27 AM |
| Surr: 4-Bromofluorobenzene     | 85.7   |      | 75-131         | %REC  | 1                    | 5/27/2010 08:27 AM |
| Surr: Trifluorotoluene         | 99.0   |      | 73-130         | %REC  | 1                    | 5/27/2010 08:27 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.85           | mg/Kg | 1                    | 6/1/2010 03:01 PM  |
| Surr: Selenate (surr)          | 98.4   |      | 85-115         | %REC  | 1                    | 6/1/2010 03:01 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 80'

Lab ID: 1005814-18

Collection Date: 5/22/2010 10:00 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 04:25 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 04:25 AM |
| Surr: 2-Fluorobiphenyl         | 91.2   |      | 70-130         | %REC  | 1                    | 5/30/2010 04:25 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 09:42 PM |
| Surr: 4-Bromofluorobenzene     | 80.0   |      | 70-130         | %REC  | 1                    | 5/27/2010 09:42 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 08:47 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 08:47 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 08:47 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 08:47 AM |
| Surr: 4-Bromofluorobenzene     | 86.4   |      | 75-131         | %REC  | 1                    | 5/27/2010 08:47 AM |
| Surr: Trifluorotoluene         | 99.1   |      | 73-130         | %REC  | 1                    | 5/27/2010 08:47 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | 6.14   |      | 4.80           | mg/Kg | 1                    | 6/1/2010 04:05 PM  |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                    | 6/1/2010 04:05 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-28 90'  
**Collection Date:** 5/22/2010 10:10 AM

**Work Order:** 1005814  
**Lab ID:** 1005814-19  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 5/30/2010 04:06 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 5/30/2010 04:06 AM |
| Surr: 2-Fluorobiphenyl         | 94.6   |      | 70-130         | %REC  | 1                    | 5/30/2010 04:06 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 10:06 PM |
| Surr: 4-Bromofluorobenzene     | 80.8   |      | 70-130         | %REC  | 1                    | 5/27/2010 10:06 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 09:07 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 09:07 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 09:07 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 09:07 AM |
| Surr: 4-Bromofluorobenzene     | 84.1   |      | 75-131         | %REC  | 1                    | 5/27/2010 09:07 AM |
| Surr: Trifluorotoluene         | 99.0   |      | 73-130         | %REC  | 1                    | 5/27/2010 09:07 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.65           | mg/Kg | 1                    | 6/1/2010 04:27 PM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                    | 6/1/2010 04:27 PM  |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 100'

Lab ID: 1005814-20

Collection Date: 5/22/2010 10:20 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor | Date Analyzed                                          |
|--------------------------------|--------|------|--------------|--------------|-----------------|--------------------------------------------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                 |                                                        |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | 1               | Prep Date: 5/28/2010 Analyst: KMB<br>6/1/2010 08:43 PM |
| TPH (Motor Oil Range)          | ND     |      |              | 3.4 mg/Kg    | 1               | 6/1/2010 08:43 PM                                      |
| Surr: 2-Fluorobiphenyl         | 124    |      |              | 70-130 %REC  | 1               | 6/1/2010 08:43 PM                                      |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                 |                                                        |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1               | Analyst: KKP<br>5/27/2010 10:30 PM                     |
| Surr: 4-Bromofluorobenzene     | 79.2   |      |              | 70-130 %REC  | 1               | 5/27/2010 10:30 PM                                     |
| <b>BTEX</b>                    |        |      |              |              |                 |                                                        |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1               | Analyst: KKP<br>5/27/2010 09:27 AM                     |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1               | 5/27/2010 09:27 AM                                     |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1               | 5/27/2010 09:27 AM                                     |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1               | 5/27/2010 09:27 AM                                     |
| Surr: 4-Bromofluorobenzene     | 85.7   |      |              | 75-131 %REC  | 1               | 5/27/2010 09:27 AM                                     |
| Surr: Trifluorotoluene         | 97.1   |      |              | 73-130 %REC  | 1               | 5/27/2010 09:27 AM                                     |
| <b>ANIONS</b>                  |        |      |              |              |                 |                                                        |
| Chloride                       | 8.99   |      | E300         | 4.70 mg/Kg   | 1               | Prep Date: 5/28/2010 Analyst: IGF<br>6/1/2010 04:51 PM |
| Surr: Selenate (surr)          | 104    |      |              | 85-115 %REC  | 1               | 6/1/2010 04:51 PM                                      |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-28 105'

Lab ID: 1005814-21

Collection Date: 5/22/2010 10:25 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/1/2010 09:03 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/1/2010 09:03 PM  |
| Surr: 2-Fluorobiphenyl         | 101    |      | 70-130         | %REC  | 1                    | 6/1/2010 09:03 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 10:54 PM |
| Surr: 4-Bromofluorobenzene     | 78.9   |      | 70-130         | %REC  | 1                    | 5/27/2010 10:54 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 11:10 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 11:10 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 11:10 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/26/2010 11:10 PM |
| Surr: 4-Bromofluorobenzene     | 87.7   |      | 75-131         | %REC  | 1                    | 5/26/2010 11:10 PM |
| Surr: Trifluorotoluene         | 99.9   |      | 73-130         | %REC  | 1                    | 5/26/2010 11:10 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | 9.98   |      | 4.86           | mg/Kg | 1                    | 6/1/2010 05:12 PM  |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/1/2010 05:12 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 10'

Lab ID: 1005814-22

Collection Date: 5/22/2010 02:40 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/1/2010 09:22 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/1/2010 09:22 PM  |
| Surr: 2-Fluorobiphenyl         | 129    |      | 70-130         | %REC  | 1                    | 6/1/2010 09:22 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/27/2010 11:42 PM |
| Surr: 4-Bromofluorobenzene     | 82.7   |      | 70-130         | %REC  | 1                    | 5/27/2010 11:42 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 11:30 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 11:30 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 11:30 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/26/2010 11:30 PM |
| Surr: 4-Bromofluorobenzene     | 93.0   |      | 75-131         | %REC  | 1                    | 5/26/2010 11:30 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 5/26/2010 11:30 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.82           | mg/Kg | 1                    | 6/1/2010 05:34 PM  |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/1/2010 05:34 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 20'

Lab ID: 1005814-23

Collection Date: 5/22/2010 02:50 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/1/2010 09:41 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/1/2010 09:41 PM  |
| Surr: 2-Fluorobiphenyl         | 123    |      | 70-130         | %REC  | 1                    | 6/1/2010 09:41 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 12:06 AM |
| Surr: 4-Bromofluorobenzene     | 76.1   |      | 70-130         | %REC  | 1                    | 5/28/2010 12:06 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 11:50 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 11:50 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/26/2010 11:50 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/26/2010 11:50 PM |
| Surr: 4-Bromofluorobenzene     | 87.2   |      | 75-131         | %REC  | 1                    | 5/26/2010 11:50 PM |
| Surr: Trifluorotoluene         | 100    |      | 73-130         | %REC  | 1                    | 5/26/2010 11:50 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.84           | mg/Kg | 1                    | 6/1/2010 06:38 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/1/2010 06:38 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-15 30'  
**Collection Date:** 5/22/2010 03:15 PM

**Work Order:** 1005814  
**Lab ID:** 1005814-24  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/1/2010 10:01 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/1/2010 10:01 PM  |
| Surr: 2-Fluorobiphenyl         | 118    |      | 70-130         | %REC  | 1                    | 6/1/2010 10:01 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 12:30 AM |
| Surr: 4-Bromofluorobenzene     | 79.6   |      | 70-130         | %REC  | 1                    | 5/28/2010 12:30 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:07 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:07 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:07 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 03:07 PM |
| Surr: 4-Bromofluorobenzene     | 88.7   |      | 75-131         | %REC  | 1                    | 5/27/2010 03:07 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 5/27/2010 03:07 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.78           | mg/Kg | 1                    | 6/1/2010 06:59 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/1/2010 06:59 PM  |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 40'

Lab ID: 1005814-25

Collection Date: 5/22/2010 03:25 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/1/2010 10:20 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/1/2010 10:20 PM  |
| Surr: 2-Fluorobiphenyl         | 108    |      | 70-130         | %REC  | 1                    | 6/1/2010 10:20 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 12:54 AM |
| Surr: 4-Bromofluorobenzene     | 80.4   |      | 70-130         | %REC  | 1                    | 5/28/2010 12:54 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:27 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:27 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:27 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 03:27 PM |
| Surr: 4-Bromofluorobenzene     | 89.8   |      | 75-131         | %REC  | 1                    | 5/27/2010 03:27 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 5/27/2010 03:27 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.96           | mg/Kg | 1                    | 6/1/2010 07:20 PM  |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                    | 6/1/2010 07:20 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 55'

Lab ID: 1005814-26

Collection Date: 5/22/2010 03:40 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/1/2010 10:40 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/1/2010 10:40 PM  |
| Surr: 2-Fluorobiphenyl         | 139    | S    | 70-130         | %REC  | 1                    | 6/1/2010 10:40 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 01:18 AM |
| Surr: 4-Bromofluorobenzene     | 80.5   |      | 70-130         | %REC  | 1                    | 5/28/2010 01:18 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:47 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:47 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 03:47 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 03:47 PM |
| Surr: 4-Bromofluorobenzene     | 88.8   |      | 75-131         | %REC  | 1                    | 5/27/2010 03:47 PM |
| Surr: Trifluorotoluene         | 99.3   |      | 73-130         | %REC  | 1                    | 5/27/2010 03:47 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | 6.37   |      | 4.79           | mg/Kg | 1                    | 6/1/2010 07:42 PM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                    | 6/1/2010 07:42 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 60'

Lab ID: 1005814-27

Collection Date: 5/22/2010 04:00 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/1/2010 10:59 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/1/2010 10:59 PM  |
| Surr: 2-Fluorobiphenyl         | 124    |      | 70-130         | %REC  | 1                    | 6/1/2010 10:59 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 01:42 AM |
| Surr: 4-Bromofluorobenzene     | 76.6   |      | 70-130         | %REC  | 1                    | 5/28/2010 01:42 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:07 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:07 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:07 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 04:07 PM |
| Surr: 4-Bromofluorobenzene     | 86.2   |      | 75-131         | %REC  | 1                    | 5/27/2010 04:07 PM |
| Surr: Trifluorotoluene         | 98.5   |      | 73-130         | %REC  | 1                    | 5/27/2010 04:07 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | 6.39   |      | 4.99           | mg/Kg | 1                    | 6/1/2010 08:03 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/1/2010 08:03 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 09-Jun-10

**Client:** Navajo Refining Company

**Project:** Lea Refinery New Wells

**Work Order:** 1005814

**Sample ID:** MW-15 70'

**Lab ID:** 1005814-28

**Collection Date:** 5/22/2010 04:15 PM

**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/1/2010 11:19 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/1/2010 11:19 PM  |
| Surr: 2-Fluorobiphenyl         | 116    |      | 70-130         | %REC  | 1                    | 6/1/2010 11:19 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 02:06 AM |
| Surr: 4-Bromofluorobenzene     | 79.4   |      | 70-130         | %REC  | 1                    | 5/28/2010 02:06 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:27 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:27 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:27 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 04:27 PM |
| Surr: 4-Bromofluorobenzene     | 85.0   |      | 75-131         | %REC  | 1                    | 5/27/2010 04:27 PM |
| Surr: Trifluorotoluene         | 98.7   |      | 73-130         | %REC  | 1                    | 5/27/2010 04:27 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | 6.36   |      | 4.96           | mg/Kg | 1                    | 6/1/2010 08:24 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/1/2010 08:24 PM  |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 80'

Lab ID: 1005814-29

Collection Date: 5/22/2010 04:25 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/1/2010 11:38 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/1/2010 11:38 PM  |
| Surr: 2-Fluorobiphenyl         | 116    |      | 70-130         | %REC  | 1                    | 6/1/2010 11:38 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 02:30 AM |
| Surr: 4-Bromofluorobenzene     | 78.9   |      | 70-130         | %REC  | 1                    | 5/28/2010 02:30 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:47 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:47 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 04:47 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 04:47 PM |
| Surr: 4-Bromofluorobenzene     | 85.4   |      | 75-131         | %REC  | 1                    | 5/27/2010 04:47 PM |
| Surr: Trifluorotoluene         | 99.3   |      | 73-130         | %REC  | 1                    | 5/27/2010 04:47 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | 7.08   |      | 4.97           | mg/Kg | 1                    | 6/1/2010 08:46 PM  |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                    | 6/1/2010 08:46 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 90'

Lab ID: 1005814-30

Collection Date: 5/22/2010 04:35 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/2/2010 12:36 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/2/2010 12:36 AM  |
| Surr: 2-Fluorobiphenyl         | 122    |      | 70-130         | %REC  | 1                    | 6/2/2010 12:36 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 02:53 AM |
| Surr: 4-Bromofluorobenzene     | 78.7   |      | 70-130         | %REC  | 1                    | 5/28/2010 02:53 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 05:07 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 05:07 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 05:07 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 05:07 PM |
| Surr: 4-Bromofluorobenzene     | 84.9   |      | 75-131         | %REC  | 1                    | 5/27/2010 05:07 PM |
| Surr: Trifluorotoluene         | 98.5   |      | 73-130         | %REC  | 1                    | 5/27/2010 05:07 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.87           | mg/Kg | 1                    | 6/1/2010 09:07 PM  |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                    | 6/1/2010 09:07 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 100'

Lab ID: 1005814-31

Collection Date: 5/22/2010 04:45 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/2/2010 12:55 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/2/2010 12:55 AM  |
| Surr: 2-Fluorobiphenyl         | 123    |      | 70-130         | %REC  | 1                    | 6/2/2010 12:55 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 03:17 AM |
| Surr: 4-Bromofluorobenzene     | 74.7   |      | 70-130         | %REC  | 1                    | 5/28/2010 03:17 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 05:27 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 05:27 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 05:27 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 05:27 PM |
| Surr: 4-Bromofluorobenzene     | 84.8   |      | 75-131         | %REC  | 1                    | 5/27/2010 05:27 PM |
| Surr: Trifluorotoluene         | 99.7   |      | 73-130         | %REC  | 1                    | 5/27/2010 05:27 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | 5.99   |      | 4.70           | mg/Kg | 1                    | 6/1/2010 10:11 PM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                    | 6/1/2010 10:11 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-15 105'

Lab ID: 1005814-32

Collection Date: 5/23/2010 08:05 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/2/2010 01:15 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/2/2010 01:15 AM  |
| Surr: 2-Fluorobiphenyl         | 117    |      | 70-130         | %REC  | 1                    | 6/2/2010 01:15 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 04:05 AM |
| Surr: 4-Bromofluorobenzene     | 79.6   |      | 70-130         | %REC  | 1                    | 5/28/2010 04:05 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 08:53 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 08:53 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 08:53 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 08:53 PM |
| Surr: 4-Bromofluorobenzene     | 91.2   |      | 75-131         | %REC  | 1                    | 5/27/2010 08:53 PM |
| Surr: Trifluorotoluene         | 104    |      | 73-130         | %REC  | 1                    | 5/27/2010 08:53 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | 10.6   |      | 4.91           | mg/Kg | 1                    | 6/1/2010 10:33 PM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                    | 6/1/2010 10:33 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 10'

Lab ID: 1005814-33

Collection Date: 5/23/2010 01:05 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor             | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                             |                     |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: <b>5/28/2010</b> | Analyst: <b>KMB</b> |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                           | 6/2/2010 01:34 AM   |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                           | 6/2/2010 01:34 AM   |
| Surr: 2-Fluorobiphenyl         | 114    |      | 70-130         | %REC  | 1                           | 6/2/2010 01:34 AM   |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                             |                     |
|                                |        |      | <b>SW8015</b>  |       |                             | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                           | 5/28/2010 04:29 AM  |
| Surr: 4-Bromofluorobenzene     | 78.4   |      | 70-130         | %REC  | 1                           | 5/28/2010 04:29 AM  |
| <b>BTEX</b>                    |        |      |                |       |                             |                     |
|                                |        |      | <b>SW8021B</b> |       |                             | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                           | 5/27/2010 09:13 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                           | 5/27/2010 09:13 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                           | 5/27/2010 09:13 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                           | 5/27/2010 09:13 PM  |
| Surr: 4-Bromofluorobenzene     | 86.5   |      | 75-131         | %REC  | 1                           | 5/27/2010 09:13 PM  |
| Surr: Trifluorotoluene         | 100    |      | 73-130         | %REC  | 1                           | 5/27/2010 09:13 PM  |
| <b>ANIONS</b>                  |        |      |                |       |                             |                     |
|                                |        |      | <b>E300</b>    |       | Prep Date: <b>5/28/2010</b> | Analyst: <b>IGF</b> |
| Chloride                       | 15.4   |      | 4.79           | mg/Kg | 1                           | 6/1/2010 10:54 PM   |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                           | 6/1/2010 10:54 PM   |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-17 20'  
**Collection Date:** 5/23/2010 01:20 PM

**Work Order:** 1005814  
**Lab ID:** 1005814-34  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/2/2010 02:32 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/2/2010 02:32 AM  |
| Surr: 2-Fluorobiphenyl         | 130    |      | 70-130         | %REC  | 1                    | 6/2/2010 02:32 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 04:53 AM |
| Surr: 4-Bromofluorobenzene     | 78.7   |      | 70-130         | %REC  | 1                    | 5/28/2010 04:53 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 09:33 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 09:33 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 09:33 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 09:33 PM |
| Surr: 4-Bromofluorobenzene     | 88.2   |      | 75-131         | %REC  | 1                    | 5/27/2010 09:33 PM |
| Surr: Trifluorotoluene         | 99.5   |      | 73-130         | %REC  | 1                    | 5/27/2010 09:33 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | 17.2   |      | 4.97           | mg/Kg | 1                    | 6/1/2010 11:15 PM  |
| Surr: Selenate (surr)          | 102    |      | 85-115         | %REC  | 1                    | 6/1/2010 11:15 PM  |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-17 30'  
**Collection Date:** 5/23/2010 01:35 PM

**Work Order:** 1005814  
**Lab ID:** 1005814-35  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/2/2010 02:51 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/2/2010 02:51 AM  |
| Surr: 2-Fluorobiphenyl         | 136    | S    | 70-130         | %REC  | 1                    | 6/2/2010 02:51 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 05:17 AM |
| Surr: 4-Bromofluorobenzene     | 78.5   |      | 70-130         | %REC  | 1                    | 5/28/2010 05:17 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 09:53 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 09:53 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 09:53 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 09:53 PM |
| Surr: 4-Bromofluorobenzene     | 90.9   |      | 75-131         | %REC  | 1                    | 5/27/2010 09:53 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 5/27/2010 09:53 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | 150    |      | 4.84           | mg/Kg | 1                    | 6/1/2010 11:37 PM  |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/1/2010 11:37 PM  |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 09-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-17 40'  
**Collection Date:** 5/23/2010 01:45 PM

**Work Order:** 1005814  
**Lab ID:** 1005814-36  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/2/2010 03:11 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/2/2010 03:11 AM  |
| Surr: 2-Fluorobiphenyl         | 155    | S    | 70-130         | %REC  | 1                    | 6/2/2010 03:11 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 06:53 AM |
| Surr: 4-Bromofluorobenzene     | 77.4   |      | 70-130         | %REC  | 1                    | 5/28/2010 06:53 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 10:13 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 10:13 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 10:13 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 10:13 PM |
| Surr: 4-Bromofluorobenzene     | 91.4   |      | 75-131         | %REC  | 1                    | 5/27/2010 10:13 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 5/27/2010 10:13 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 5/28/2010 | Analyst: IGF       |
| Chloride                       | 120    |      | 4.81           | mg/Kg | 1                    | 6/1/2010 11:58 PM  |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/1/2010 11:58 PM  |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 50'

Lab ID: 1005814-37

Collection Date: 5/23/2010 01:55 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor             | Date Analyzed       |
|--------------------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                             |                     |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: <b>5/28/2010</b> | Analyst: <b>KMB</b> |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                           | 6/2/2010 03:30 AM   |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                           | 6/2/2010 03:30 AM   |
| Surr: 2-Fluorobiphenyl         | 144    | S    | 70-130         | %REC  | 1                           | 6/2/2010 03:30 AM   |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                             |                     |
|                                |        |      | <b>SW8015</b>  |       |                             | Analyst: <b>KKP</b> |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                           | 5/28/2010 07:16 AM  |
| Surr: 4-Bromofluorobenzene     | 79.9   |      | 70-130         | %REC  | 1                           | 5/28/2010 07:16 AM  |
| <b>BTEX</b>                    |        |      |                |       |                             |                     |
|                                |        |      | <b>SW8021B</b> |       |                             | Analyst: <b>KKP</b> |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                           | 5/27/2010 10:33 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                           | 5/27/2010 10:33 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                           | 5/27/2010 10:33 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                           | 5/27/2010 10:33 PM  |
| Surr: 4-Bromofluorobenzene     | 92.8   |      | 75-131         | %REC  | 1                           | 5/27/2010 10:33 PM  |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                           | 5/27/2010 10:33 PM  |
| <b>ANIONS</b>                  |        |      |                |       |                             |                     |
|                                |        |      | <b>E300</b>    |       | Prep Date: <b>6/1/2010</b>  | Analyst: <b>IGF</b> |
| Chloride                       | 79.0   |      | 4.69           | mg/Kg | 1                           | 6/3/2010 06:42 AM   |
| Surr: Selenate (surr)          | 96.2   |      | 85-115         | %REC  | 1                           | 6/3/2010 06:42 AM   |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 60'

Lab ID: 1005814-38

Collection Date: 5/23/2010 02:10 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/2/2010 03:49 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/2/2010 03:49 AM  |
| Surr: 2-Fluorobiphenyl         | 133    | S    | 70-130         | %REC  | 1                    | 6/2/2010 03:49 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 07:40 AM |
| Surr: 4-Bromofluorobenzene     | 81.0   |      | 70-130         | %REC  | 1                    | 5/28/2010 07:40 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 11:33 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 11:33 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 11:33 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 11:33 PM |
| Surr: 4-Bromofluorobenzene     | 89.4   |      | 75-131         | %REC  | 1                    | 5/27/2010 11:33 PM |
| Surr: Trifluorotoluene         | 100    |      | 73-130         | %REC  | 1                    | 5/27/2010 11:33 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/1/2010  | Analyst: IGF       |
| Chloride                       | 40.3   |      | 4.76           | mg/Kg | 1                    | 6/3/2010 07:25 AM  |
| Surr: Selenate (surr)          | 97.9   |      | 85-115         | %REC  | 1                    | 6/3/2010 07:25 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 70'

Lab ID: 1005814-39

Collection Date: 5/23/2010 02:20 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/2/2010 03:30 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/2/2010 03:30 AM  |
| Surr: 2-Fluorobiphenyl         | 119    |      | 70-130         | %REC  | 1                    | 6/2/2010 03:30 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 08:04 AM |
| Surr: 4-Bromofluorobenzene     | 79.6   |      | 70-130         | %REC  | 1                    | 5/28/2010 08:04 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 11:53 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 11:53 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/27/2010 11:53 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/27/2010 11:53 PM |
| Surr: 4-Bromofluorobenzene     | 91.2   |      | 75-131         | %REC  | 1                    | 5/27/2010 11:53 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 5/27/2010 11:53 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/1/2010  | Analyst: IGF       |
| Chloride                       | 10.6   |      | 4.95           | mg/Kg | 1                    | 6/3/2010 07:40 AM  |
| Surr: Selenate (surr)          | 98.0   |      | 85-115         | %REC  | 1                    | 6/3/2010 07:40 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 80'

Lab ID: 1005814-40

Collection Date: 5/23/2010 02:30 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/1/2010 08:43 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/1/2010 08:43 PM  |
| Surr: 2-Fluorobiphenyl         | 128    |      | 70-130         | %REC  | 1                    | 6/1/2010 08:43 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 08:28 AM |
| Surr: 4-Bromofluorobenzene     | 80.8   |      | 70-130         | %REC  | 1                    | 5/28/2010 08:28 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/28/2010 12:13 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/28/2010 12:13 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/28/2010 12:13 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/28/2010 12:13 AM |
| Surr: 4-Bromofluorobenzene     | 87.9   |      | 75-131         | %REC  | 1                    | 5/28/2010 12:13 AM |
| Surr: Trifluorotoluene         | 99.4   |      | 73-130         | %REC  | 1                    | 5/28/2010 12:13 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/1/2010  | Analyst: IGF       |
| Chloride                       | 7.24   |      | 4.78           | mg/Kg | 1                    | 6/3/2010 07:54 AM  |
| Surr: Selenate (surr)          | 99.1   |      | 85-115         | %REC  | 1                    | 6/3/2010 07:54 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 90'

Lab ID: 1005814-41

Collection Date: 5/23/2010 02:40 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/1/2010 09:03 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/1/2010 09:03 PM  |
| Surr: 2-Fluorobiphenyl         | 113    |      | 70-130         | %REC  | 1                    | 6/1/2010 09:03 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 10:04 AM |
| Surr: 4-Bromofluorobenzene     | 78.9   |      | 70-130         | %REC  | 1                    | 5/28/2010 10:04 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/28/2010 12:33 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/28/2010 12:33 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/28/2010 12:33 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/28/2010 12:33 AM |
| Surr: 4-Bromofluorobenzene     | 83.7   |      | 75-131         | %REC  | 1                    | 5/28/2010 12:33 AM |
| Surr: Trifluorotoluene         | 97.9   |      | 73-130         | %REC  | 1                    | 5/28/2010 12:33 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/1/2010  | Analyst: IGF       |
| Chloride                       | ND     |      | 4.86           | mg/Kg | 1                    | 6/3/2010 08:09 AM  |
| Surr: Selenate (surr)          | 98.9   |      | 85-115         | %REC  | 1                    | 6/3/2010 08:09 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: MW-17 100'

Lab ID: 1005814-42

Collection Date: 5/23/2010 02:50 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/1/2010 09:22 PM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/1/2010 09:22 PM  |
| Surr: 2-Fluorobiphenyl         | 114    |      | 70-130         | %REC  | 1                    | 6/1/2010 09:22 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 10:28 AM |
| Surr: 4-Bromofluorobenzene     | 80.3   |      | 70-130         | %REC  | 1                    | 5/28/2010 10:28 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/28/2010 02:13 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/28/2010 02:13 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/28/2010 02:13 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/28/2010 02:13 AM |
| Surr: 4-Bromofluorobenzene     | 83.2   |      | 75-131         | %REC  | 1                    | 5/28/2010 02:13 AM |
| Surr: Trifluorotoluene         | 97.0   |      | 73-130         | %REC  | 1                    | 5/28/2010 02:13 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/1/2010  | Analyst: IGF       |
| Chloride                       | 47.9   |      | 4.99           | mg/Kg | 1                    | 6/3/2010 08:24 AM  |
| Surr: Selenate (surr)          | 95.8   |      | 85-115         | %REC  | 1                    | 6/3/2010 08:24 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: Trip Blank 042110-20

Lab ID: 1005814-43

Collection Date: 5/23/2010

Matrix: WATER

| Analyses                   | Result | Qual | Report Limit   | Units | Dilution Factor | Date Analyzed       |
|----------------------------|--------|------|----------------|-------|-----------------|---------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b> |       |                 | Analyst: <b>KKP</b> |
| Benzene                    | ND     |      | 0.0010         | mg/L  | 1               | 5/28/2010 02:09 AM  |
| Toluene                    | ND     |      | 0.0010         | mg/L  | 1               | 5/28/2010 02:09 AM  |
| Ethylbenzene               | ND     |      | 0.0010         | mg/L  | 1               | 5/28/2010 02:09 AM  |
| Xylenes, Total             | ND     |      | 0.0030         | mg/L  | 1               | 5/28/2010 02:09 AM  |
| Surr: 4-Bromofluorobenzene | 98.6   |      | 77-129         | %REC  | 1               | 5/28/2010 02:09 AM  |
| Surr: Trifluorotoluene     | 101    |      | 75-130         | %REC  | 1               | 5/28/2010 02:09 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005814

Sample ID: Trip Blank 051110-64

Lab ID: 1005814-44

Collection Date: 5/23/2010

Matrix: WATER

| Analyses                   | Result | Qual | Report<br>Limit | Units | Dilution<br>Factor | Date Analyzed      |
|----------------------------|--------|------|-----------------|-------|--------------------|--------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b>  |       |                    | Analyst: KKP       |
| Benzene                    | ND     |      | 0.0010          | mg/L  | 1                  | 5/28/2010 02:26 AM |
| Toluene                    | ND     |      | 0.0010          | mg/L  | 1                  | 5/28/2010 02:26 AM |
| Ethylbenzene               | ND     |      | 0.0010          | mg/L  | 1                  | 5/28/2010 02:26 AM |
| Xylenes, Total             | ND     |      | 0.0030          | mg/L  | 1                  | 5/28/2010 02:26 AM |
| Surr: 4-Bromofluorobenzene | 99.1   |      | 77-129          | %REC  | 1                  | 5/28/2010 02:26 AM |
| Surr: Trifluorotoluene     | 105    |      | 75-130          | %REC  | 1                  | 5/28/2010 02:26 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

Client: Navajo Refining Company  
 Project: Lea Refinery New Wells  
 Sample ID: MW-17  
 Collection Date: 5/23/2010 01:00 PM

Work Order: 1005814  
 Lab ID: 1005814-45  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 5/28/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | 8.5    |      | 1.7            | mg/Kg | 1                    | 6/1/2010 09:41 PM  |
| TPH (Motor Oil Range)          | 63     |      | 3.4            | mg/Kg | 1                    | 6/1/2010 09:41 PM  |
| Surr: 2-Fluorobiphenyl         | 119    |      | 70-130         | %REC  | 1                    | 6/1/2010 09:41 PM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 5/28/2010 10:52 AM |
| Surr: 4-Bromofluorobenzene     | 77.6   |      | 70-130         | %REC  | 1                    | 5/28/2010 10:52 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 5/28/2010 05:52 AM |
| Toluene                        | 0.0031 |      | 0.0010         | mg/Kg | 1                    | 5/28/2010 05:52 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 5/28/2010 05:52 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 5/28/2010 05:52 AM |
| Surr: 4-Bromofluorobenzene     | 88.0   |      | 75-131         | %REC  | 1                    | 5/28/2010 05:52 AM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 5/28/2010 05:52 AM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/1/2010  | Analyst: IGF       |
| Chloride                       | 4.90   |      | 4.80           | mg/Kg | 1                    | 6/3/2010 09:22 AM  |
| Surr: Selenate (surr)          | 96.0   |      | 85-115         | %REC  | 1                    | 6/3/2010 09:22 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 09-Jun-10

**Client:** Navajo Refining Company  
**Work Order:** 1005814  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **43311** Instrument ID **FID-7** Method: **SW8015M**

**MBLK** Sample ID: **FBLKS1-100528-43311** Units: **mg/Kg** Analysis Date: **5/29/2010 08:59 PM**

Client ID: Run ID: **FID-7\_100528A** SeqNo: **1984874** Prep Date: **5/28/2010** DF: **1**

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.084  | 0.10 | 3.33    | 0             | 92.6 | 70-130        | 0             |      |           |      |

**LCS** Sample ID: **FLCSS1-100528-43311** Units: **mg/Kg** Analysis Date: **5/29/2010 09:19 PM**

Client ID: Run ID: **FID-7\_100528A** SeqNo: **1984875** Prep Date: **5/28/2010** DF: **1**

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 26.69  | 1.7  | 33.33   | 0             | 80.1 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 35.47  | 3.4  | 33.33   | 0             | 106  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.881  | 0.10 | 3.33    | 0             | 117  | 70-130        | 0             |      |           |      |

**MS** Sample ID: **1005814-03BMS** Units: **mg/Kg** Analysis Date: **5/29/2010 10:56 PM**

Client ID: **MW-21 30'** Run ID: **FID-7\_100528A** SeqNo: **1984878** Prep Date: **5/28/2010** DF: **1**

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 28.46  | 1.7  | 33.26   | 0             | 85.6 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 41.16  | 3.4  | 33.26   | 0.3047        | 123  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.718  | 0.10 | 3.323   | 0             | 112  | 70-130        | 0             |      |           |      |

**MSD** Sample ID: **1005814-03BMSD** Units: **mg/Kg** Analysis Date: **5/29/2010 11:15 PM**

Client ID: **MW-21 30'** Run ID: **FID-7\_100528A** SeqNo: **1984879** Prep Date: **5/28/2010** DF: **1**

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 29.12  | 1.7  | 33.23   | 0             | 87.6 | 70-130        | 28.46         | 2.27 | 30        |      |
| TPH (Motor Oil Range)  | 41.63  | 3.4  | 33.23   | 0.3047        | 124  | 70-130        | 41.16         | 1.12 | 30        |      |
| Surr: 2-Fluorobiphenyl | 3.499  | 0.10 | 3.32    | 0             | 105  | 70-130        | 3.718         | 6.06 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005814-01B | 1005814-02B | 1005814-03B |
| 1005814-04B | 1005814-05B | 1005814-06B |
| 1005814-07B | 1005814-08B | 1005814-09B |
| 1005814-10B | 1005814-11B | 1005814-12B |
| 1005814-13B | 1005814-14B | 1005814-15B |
| 1005814-16B | 1005814-17B | 1005814-18B |
| 1005814-19B |             |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1005814  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: 43312 Instrument ID FID-8 Method: SW8015M

MBLK Sample ID: FBLKS2-100528-43312 Units: mg/Kg Analysis Date: 6/1/2010 08:05 PM

Client ID: Run ID: FID-8\_100528B SeqNo: 1987850 Prep Date: 5/28/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.26   | 0.10 | 3.33    | 0             | 128  | 70-130        | 0             |      |           |      |

LCS Sample ID: FLCSS2-100528-43312 Units: mg/Kg Analysis Date: 6/1/2010 08:24 PM

Client ID: Run ID: FID-8\_100528B SeqNo: 1987851 Prep Date: 5/28/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 36.59  | 1.7  | 33.33   | 0             | 110  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 35.31  | 3.4  | 33.33   | 0             | 106  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.047  | 0.10 | 3.33    | 0             | 122  | 70-130        | 0             |      |           |      |

MS Sample ID: 1005814-33BMS Units: mg/Kg Analysis Date: 6/2/2010 01:53 AM

Client ID: MW-17 10' Run ID: FID-8\_100528B SeqNo: 1987873 Prep Date: 5/28/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 38.94  | 1.7  | 33.29   | 0.1989        | 116  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 39.06  | 3.4  | 33.29   | 0.4936        | 116  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.19   | 0.10 | 3.326   | 0             | 126  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005814-33BMSD Units: mg/Kg Analysis Date: 6/2/2010 02:13 AM

Client ID: MW-17 10' Run ID: FID-8\_100528B SeqNo: 1987874 Prep Date: 5/28/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 35.92  | 1.7  | 33.24   | 0.1989        | 107  | 70-130        | 38.94         | 8.06 | 30        |      |
| TPH (Motor Oil Range)  | 34.78  | 3.4  | 33.24   | 0.4936        | 103  | 70-130        | 39.06         | 11.6 | 30        |      |
| Surr: 2-Fluorobiphenyl | 3.92   | 0.10 | 3.321   | 0             | 118  | 70-130        | 4.19          | 6.68 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005814-20B | 1005814-21B | 1005814-22B |
| 1005814-23B | 1005814-24B | 1005814-25B |
| 1005814-26B | 1005814-27B | 1005814-28B |
| 1005814-29B | 1005814-30B | 1005814-31B |
| 1005814-32B | 1005814-33B | 1005814-34B |
| 1005814-35B | 1005814-36B | 1005814-37B |
| 1005814-38B | 1005814-39B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005814  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: 43321 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS3-100528-43321 Units: mg/Kg Analysis Date: 6/1/2010 08:05 PM

Client ID: Run ID: FID-7\_100528B SeqNo: 1988110 Prep Date: 5/28/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.323  | 0.10 | 3.33    | 0             | 130  | 70-130        | 0             |      |           |      |

LCS Sample ID: FLLCSS3-100528-43321 Units: mg/Kg Analysis Date: 6/1/2010 08:24 PM

Client ID: Run ID: FID-7\_100528B SeqNo: 1988136 Prep Date: 5/28/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 34.96  | 1.7  | 33.33   | 0             | 105  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 42.66  | 3.4  | 33.33   | 0             | 128  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.159  | 0.10 | 3.33    | 0             | 125  | 70-130        | 0             |      |           |      |

MS Sample ID: 1005831-16CMS Units: mg/Kg Analysis Date: 6/2/2010 02:51 AM

Client ID: Run ID: FID-7\_100528B SeqNo: 1988129 Prep Date: 5/28/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 32.45  | 1.7  | 33.3    | 0.08988       | 97.2 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 37.89  | 3.4  | 33.3    | 1.96          | 108  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.252  | 0.10 | 3.327   | 0             | 128  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005831-16CMSD Units: mg/Kg Analysis Date: 6/2/2010 03:11 AM

Client ID: Run ID: FID-7\_100528B SeqNo: 1988130 Prep Date: 5/28/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| TPH (Diesel Range)     | 35.79  | 1.7  | 33.26   | 0.08988       | 107  | 70-130        | 32.45         | 9.79  | 30        |      |
| TPH (Motor Oil Range)  | 43.24  | 3.4  | 33.26   | 1.96          | 124  | 70-130        | 37.89         | 13.2  | 30        |      |
| Surr: 2-Fluorobiphenyl | 4.261  | 0.10 | 3.323   | 0             | 128  | 70-130        | 4.252         | 0.206 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005814-40B | 1005814-41B | 1005814-42B |
| 1005814-45B |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1005814  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **R91753** Instrument ID **BTEX1** Method: **SW8021B**

**MBLK** Sample ID: **MEOHW1-052710-R91753** Units: **µg/L** Analysis Date: **5/27/2010 05:53 PM**

Client ID: Run ID: **BTEX1\_100527A** SeqNo: **1977482** Prep Date: DF: **1**

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | 0.3324 | 1.0 |         |               |      |               |               |      |           | J    |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.17  | 1.0 | 30      | 0             | 101  | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.24  | 1.0 | 30      | 0             | 101  | 75-130        | 0             |      |           |      |

**MBLK** Sample ID: **BBLKW1-052710-R91753** Units: **µg/L** Analysis Date: **5/27/2010 06:10 PM**

Client ID: Run ID: **BTEX1\_100527A** SeqNo: **1977483** Prep Date: DF: **1**

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.12  | 1.0 | 30      | 0             | 100  | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.91  | 1.0 | 30      | 0             | 103  | 75-130        | 0             |      |           |      |

**LCS** Sample ID: **BLCSW1-052710-R91753** Units: **µg/L** Analysis Date: **5/27/2010 05:11 PM**

Client ID: Run ID: **BTEX1\_100527A** SeqNo: **1977481** Prep Date: DF: **1**

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 18.99  | 1.0 | 20      | 0             | 95   | 77-126        | 0             |      |           |      |
| Toluene                    | 19.03  | 1.0 | 20      | 0             | 95.1 | 80-124        | 0             |      |           |      |
| Ethylbenzene               | 17.23  | 1.0 | 20      | 0             | 86.2 | 76-125        | 0             |      |           |      |
| Xylenes, Total             | 52.12  | 3.0 | 60      | 0             | 86.9 | 79-124        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.83  | 1.0 | 30      | 0             | 99.4 | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.55  | 1.0 | 30      | 0             | 105  | 75-130        | 0             |      |           |      |

**MS** Sample ID: **1005645-10AMS** Units: **µg/L** Analysis Date: **5/27/2010 10:43 PM**

Client ID: Run ID: **BTEX1\_100527A** SeqNo: **1977494** Prep Date: DF: **1**

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 24.42  | 1.0 | 20      | 0.2724        | 121  | 77-126        | 0             |      |           |      |
| Toluene                    | 22.75  | 1.0 | 20      | 0.2863        | 112  | 80-124        | 0             |      |           |      |
| Ethylbenzene               | 22.09  | 1.0 | 20      | 0             | 110  | 76-125        | 0             |      |           |      |
| Xylenes, Total             | 65.95  | 3.0 | 60      | 0.497         | 109  | 79-124        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.77  | 1.0 | 30      | 0             | 103  | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 32.48  | 1.0 | 30      | 0             | 108  | 75-130        | 0             |      |           |      |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1005814  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **R91753** Instrument ID **BTEX1** Method: **SW8021B**

**MSD** Sample ID: **1005645-10AMSD** Units: **µg/L** Analysis Date: **5/27/2010 11:00 PM**

Client ID: Run ID: **BTEX1\_100527A** SeqNo: **1977495** Prep Date: DF: **1**

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD   | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|--------|-----------|------|
| Benzene                    | 24.4   | 1.0 | 20      | 0.2724        | 121  | 77-126        | 24.42         | 0.0727 | 20        |      |
| Toluene                    | 22.77  | 1.0 | 20      | 0.2863        | 112  | 80-124        | 22.75         | 0.0944 | 20        |      |
| Ethylbenzene               | 22.21  | 1.0 | 20      | 0             | 111  | 76-125        | 22.09         | 0.535  | 20        |      |
| Xylenes, Total             | 66.11  | 3.0 | 60      | 0.497         | 109  | 79-124        | 65.95         | 0.238  | 20        |      |
| Surr: 4-Bromofluorobenzene | 30.99  | 1.0 | 30      | 0             | 103  | 77-129        | 30.77         | 0.698  | 20        |      |
| Surr: Trifluorotoluene     | 32.83  | 1.0 | 30      | 0             | 109  | 75-130        | 32.48         | 1.06   | 20        |      |

The following samples were analyzed in this batch:

1005814-43A 1005814-44A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005814  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R91779 Instrument ID BTEX3 Method: SW8021B

| <b>MBLK</b>                | Sample ID: BBLKS1-052610-R91779 |     |         |               | Units: µg/Kg   |               | Analysis Date: 5/26/2010 01:33 PM |      |           |      |
|----------------------------|---------------------------------|-----|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| Client ID:                 | Run ID: BTEX3_100526A           |     |         |               | SeqNo: 1978009 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                          | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Benzene                    | ND                              | 1.0 |         |               |                |               |                                   |      |           |      |
| Toluene                    | ND                              | 1.0 |         |               |                |               |                                   |      |           |      |
| Ethylbenzene               | ND                              | 1.0 |         |               |                |               |                                   |      |           |      |
| Xylenes, Total             | ND                              | 3.0 |         |               |                |               |                                   |      |           |      |
| Surr: 4-Bromofluorobenzene | 28.75                           | 1.0 | 30      | 0             | 95.8           | 75-131        | 0                                 |      |           |      |
| Surr: Trifluorotoluene     | 31.17                           | 1.0 | 30      | 0             | 104            | 73-130        | 0                                 |      |           |      |

| <b>LCS</b>                 | Sample ID: BLCSS1-052610-R91779 |     |         |               | Units: µg/Kg   |               | Analysis Date: 5/26/2010 12:34 PM |      |           |      |
|----------------------------|---------------------------------|-----|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| Client ID:                 | Run ID: BTEX3_100526A           |     |         |               | SeqNo: 1978008 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                          | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Benzene                    | 20.24                           | 1.0 | 20      | 0             | 101            | 74-129        | 0                                 |      |           |      |
| Toluene                    | 20.23                           | 1.0 | 20      | 0             | 101            | 75-128        | 0                                 |      |           |      |
| Ethylbenzene               | 21.14                           | 1.0 | 20      | 0             | 106            | 73-127        | 0                                 |      |           |      |
| Xylenes, Total             | 62.06                           | 3.0 | 60      | 0             | 103            | 74-127        | 0                                 |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.42                           | 1.0 | 30      | 0             | 98.1           | 75-131        | 0                                 |      |           |      |
| Surr: Trifluorotoluene     | 30.75                           | 1.0 | 30      | 0             | 103            | 73-130        | 0                                 |      |           |      |

| <b>MS</b>                  | Sample ID: 1005833-12AMS |     |         |               | Units: µg/Kg   |               | Analysis Date: 5/26/2010 05:59 PM |      |           |      |
|----------------------------|--------------------------|-----|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| Client ID:                 | Run ID: BTEX3_100526A    |     |         |               | SeqNo: 1978030 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                   | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Benzene                    | 20.15                    | 1.0 | 20      | 0             | 101            | 74-129        | 0                                 |      |           |      |
| Toluene                    | 20.19                    | 1.0 | 20      | 0             | 101            | 75-128        | 0                                 |      |           |      |
| Ethylbenzene               | 21.19                    | 1.0 | 20      | 0             | 106            | 73-127        | 0                                 |      |           |      |
| Xylenes, Total             | 62.26                    | 3.0 | 60      | 0             | 104            | 74-127        | 0                                 |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.09                    | 1.0 | 30      | 0             | 100            | 75-131        | 0                                 |      |           |      |
| Surr: Trifluorotoluene     | 30.86                    | 1.0 | 30      | 0             | 103            | 73-130        | 0                                 |      |           |      |

| <b>MSD</b>                 | Sample ID: 1005833-12AMSD |     |         |               | Units: µg/Kg   |               | Analysis Date: 5/26/2010 06:19 PM |       |           |      |
|----------------------------|---------------------------|-----|---------|---------------|----------------|---------------|-----------------------------------|-------|-----------|------|
| Client ID:                 | Run ID: BTEX3_100526A     |     |         |               | SeqNo: 1978032 |               | Prep Date:                        |       | DF: 1     |      |
| Analyte                    | Result                    | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD  | RPD Limit | Qual |
| Benzene                    | 20.46                     | 1.0 | 20      | 0             | 102            | 74-129        | 20.15                             | 1.49  | 30        |      |
| Toluene                    | 20.46                     | 1.0 | 20      | 0             | 102            | 75-128        | 20.19                             | 1.34  | 30        |      |
| Ethylbenzene               | 21.38                     | 1.0 | 20      | 0             | 107            | 73-127        | 21.19                             | 0.909 | 30        |      |
| Xylenes, Total             | 62.81                     | 3.0 | 60      | 0             | 105            | 74-127        | 62.26                             | 0.879 | 30        |      |
| Surr: 4-Bromofluorobenzene | 30.02                     | 1.0 | 30      | 0             | 100            | 75-131        | 30.09                             | 0.225 | 30        |      |
| Surr: Trifluorotoluene     | 31.02                     | 1.0 | 30      | 0             | 103            | 73-130        | 30.86                             | 0.52  | 30        |      |

The following samples were analyzed in this batch: 1005814-21A 1005814-22A 1005814-23A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
 Work Order: 1005814  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R91786 Instrument ID BTEX3 Method: SW8021B

| <b>MBLK</b>                |        | Sample ID: BBLKS1-052610-R91786 |         |               |      | Units: µg/Kg   |               | Analysis Date: 5/27/2010 12:50 AM |           |       |
|----------------------------|--------|---------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX3_100526B           |         |               |      | SeqNo: 1978119 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Toluene                    | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Ethylbenzene               | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Xylenes, Total             | ND     | 3.0                             |         |               |      |                |               |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 25.81  | 1.0                             | 30      | 0             | 86   | 75-131         | 0             |                                   |           |       |
| Surr: Trifluorotoluene     | 29.81  | 1.0                             | 30      | 0             | 99.4 | 73-130         | 0             |                                   |           |       |

| <b>LCS</b>                 |        | Sample ID: BLCSS1-052710-R91786 |         |               |      | Units: µg/Kg   |               | Analysis Date: 5/27/2010 12:30 AM |           |       |
|----------------------------|--------|---------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX3_100526B           |         |               |      | SeqNo: 1978118 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | 20.21  | 1.0                             | 20      | 0             | 101  | 74-129         | 0             |                                   |           |       |
| Toluene                    | 20.19  | 1.0                             | 20      | 0             | 101  | 75-128         | 0             |                                   |           |       |
| Ethylbenzene               | 21.1   | 1.0                             | 20      | 0             | 105  | 73-127         | 0             |                                   |           |       |
| Xylenes, Total             | 62.08  | 3.0                             | 60      | 0             | 103  | 74-127         | 0             |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 26.68  | 1.0                             | 30      | 0             | 88.9 | 75-131         | 0             |                                   |           |       |
| Surr: Trifluorotoluene     | 30.48  | 1.0                             | 30      | 0             | 102  | 73-130         | 0             |                                   |           |       |

| <b>MS</b>                  |        | Sample ID: 1005814-01AMS |         |               |      | Units: µg/Kg   |               | Analysis Date: 5/27/2010 01:29 AM |           |       |
|----------------------------|--------|--------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID: MW-21 10'       |        | Run ID: BTEX3_100526B    |         |               |      | SeqNo: 1978121 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                      | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | 19.67  | 1.0                      | 20      | 0             | 98.4 | 74-129         | 0             |                                   |           |       |
| Toluene                    | 19.87  | 1.0                      | 20      | 0             | 99.3 | 75-128         | 0             |                                   |           |       |
| Ethylbenzene               | 20.38  | 1.0                      | 20      | 0             | 102  | 73-127         | 0             |                                   |           |       |
| Xylenes, Total             | 60.58  | 3.0                      | 60      | 0             | 101  | 74-127         | 0             |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 26.47  | 1.0                      | 30      | 0             | 88.2 | 75-131         | 0             |                                   |           |       |
| Surr: Trifluorotoluene     | 30.65  | 1.0                      | 30      | 0             | 102  | 73-130         | 0             |                                   |           |       |

| <b>MSD</b>                 |        | Sample ID: 1005814-01AMSD |         |               |      | Units: µg/Kg   |               | Analysis Date: 5/27/2010 01:49 AM |           |       |
|----------------------------|--------|---------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID: MW-21 10'       |        | Run ID: BTEX3_100526B     |         |               |      | SeqNo: 1978122 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                       | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | 20.09  | 1.0                       | 20      | 0             | 100  | 74-129         | 19.67         | 2.12                              | 30        |       |
| Toluene                    | 20.04  | 1.0                       | 20      | 0             | 100  | 75-128         | 19.87         | 0.889                             | 30        |       |
| Ethylbenzene               | 20.62  | 1.0                       | 20      | 0             | 103  | 73-127         | 20.38         | 1.17                              | 30        |       |
| Xylenes, Total             | 61.28  | 3.0                       | 60      | 0             | 102  | 74-127         | 60.58         | 1.15                              | 30        |       |
| Surr: 4-Bromofluorobenzene | 26.47  | 1.0                       | 30      | 0             | 88.2 | 75-131         | 26.47         | 0.0355                            | 30        |       |
| Surr: Trifluorotoluene     | 31.2   | 1.0                       | 30      | 0             | 104  | 73-130         | 30.65         | 1.8                               | 30        |       |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company

Work Order: 1005814

Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R91786

Instrument ID BTEX3

Method: SW8021B

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005814-01A | 1005814-02A | 1005814-03A |
| 1005814-04A | 1005814-05A | 1005814-06A |
| 1005814-07A | 1005814-08A | 1005814-09A |
| 1005814-10A | 1005814-11A | 1005814-12A |
| 1005814-13A | 1005814-14A | 1005814-15A |
| 1005814-16A | 1005814-17A | 1005814-18A |
| 1005814-19A | 1005814-20A |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005814  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R91787 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-052710-R91787 Units: µg/Kg Analysis Date: 5/27/2010 01:17 PM

Client ID: Run ID: BTEX3\_100527A SeqNo: 1978150 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 26.45  | 1.0 | 30      | 0             | 88.2 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.31  | 1.0 | 30      | 0             | 101  | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-052710-R91787 Units: µg/Kg Analysis Date: 5/27/2010 10:07 AM

Client ID: Run ID: BTEX3\_100527A SeqNo: 1978149 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.81  | 1.0 | 20      | 0             | 99.1 | 74-129        | 0             |      |           |      |
| Toluene                    | 19.75  | 1.0 | 20      | 0             | 98.8 | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 20.36  | 1.0 | 20      | 0             | 102  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 60.3   | 3.0 | 60      | 0             | 100  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 26.23  | 1.0 | 30      | 0             | 87.4 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.74  | 1.0 | 30      | 0             | 102  | 73-130        | 0             |      |           |      |

MS Sample ID: 1005814-31AMS Units: µg/Kg Analysis Date: 5/27/2010 06:57 PM

Client ID: MW-15 100' Run ID: BTEX3\_100527A SeqNo: 1978166 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.97  | 1.0 | 20      | 0             | 99.9 | 74-129        | 0             |      |           |      |
| Toluene                    | 20.1   | 1.0 | 20      | 0             | 101  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 19.75  | 1.0 | 20      | 0             | 98.7 | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 60.89  | 3.0 | 60      | 0             | 101  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 26.72  | 1.0 | 30      | 0             | 89.1 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.51  | 1.0 | 30      | 0             | 102  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1005814-31AMSD Units: µg/Kg Analysis Date: 5/27/2010 07:17 PM

Client ID: MW-15 100' Run ID: BTEX3\_100527A SeqNo: 1978168 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD   | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|--------|-----------|------|
| Benzene                    | 19.8   | 1.0 | 20      | 0             | 99   | 74-129        | 19.97         | 0.855  | 30        |      |
| Toluene                    | 19.81  | 1.0 | 20      | 0             | 99.1 | 75-128        | 20.1          | 1.45   | 30        |      |
| Ethylbenzene               | 20.53  | 1.0 | 20      | 0             | 103  | 73-127        | 19.75         | 3.89   | 30        |      |
| Xylenes, Total             | 60.9   | 3.0 | 60      | 0             | 102  | 74-127        | 60.89         | 0.0137 | 30        |      |
| Surr: 4-Bromofluorobenzene | 27.9   | 1.0 | 30      | 0             | 93   | 75-131        | 26.72         | 4.34   | 30        |      |
| Surr: Trifluorotoluene     | 30.76  | 1.0 | 30      | 0             | 103  | 73-130        | 30.51         | 0.824  | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company

**Work Order:** 1005814

**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **R91787**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005814-24A | 1005814-25A | 1005814-26A |
| 1005814-27A | 1005814-28A | 1005814-29A |
| 1005814-30A | 1005814-31A | 1005814-32A |
| 1005814-33A | 1005814-34A | 1005814-35A |
| 1005814-36A | 1005814-37A | 1005814-38A |
| 1005814-39A | 1005814-40A | 1005814-41A |

Client: Navajo Refining Company  
 Work Order: 1005814  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R91789 Instrument ID BTEX3 Method: SW8021B

| <b>MBLK</b>                |        | Sample ID: BBLKS1-052810-R91789 |         |               |      | Units: µg/Kg   |               | Analysis Date: 5/28/2010 01:53 AM |           |       |
|----------------------------|--------|---------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX3_100527B           |         |               |      | SeqNo: 1978191 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Toluene                    | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Ethylbenzene               | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Xylenes, Total             | ND     | 3.0                             |         |               |      |                |               |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 24.65  | 1.0                             | 30      |               | 0    | 82.2 75-131    | 0             |                                   |           |       |
| Surr: Trifluorotoluene     | 29.17  | 1.0                             | 30      |               | 0    | 97.2 73-130    | 0             |                                   |           |       |

| <b>LCS</b>                 |        | Sample ID: BLCSS1-052810-R91789 |         |               |      | Units: µg/Kg   |               | Analysis Date: 5/28/2010 01:13 AM |           |       |
|----------------------------|--------|---------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:                 |        | Run ID: BTEX3_100527B           |         |               |      | SeqNo: 1978190 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | 19.76  | 1.0                             | 20      |               | 0    | 98.8 74-129    | 0             |                                   |           |       |
| Toluene                    | 19.64  | 1.0                             | 20      |               | 0    | 98.2 75-128    | 0             |                                   |           |       |
| Ethylbenzene               | 20.1   | 1.0                             | 20      |               | 0    | 101 73-127     | 0             |                                   |           |       |
| Xylenes, Total             | 59     | 3.0                             | 60      |               | 0    | 98.3 74-127    | 0             |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 25.87  | 1.0                             | 30      |               | 0    | 86.2 75-131    | 0             |                                   |           |       |
| Surr: Trifluorotoluene     | 30.46  | 1.0                             | 30      |               | 0    | 102 73-130     | 0             |                                   |           |       |

| <b>MS</b>                  |        | Sample ID: 1005814-42AMS |         |               |      | Units: µg/Kg   |               | Analysis Date: 5/28/2010 02:33 AM |           |       |
|----------------------------|--------|--------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID: MW-17 100'      |        | Run ID: BTEX3_100527B    |         |               |      | SeqNo: 1978193 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                      | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | 19.56  | 1.0                      | 20      |               | 0    | 97.8 74-129    | 0             |                                   |           |       |
| Toluene                    | 19.24  | 1.0                      | 20      |               | 0    | 96.2 75-128    | 0             |                                   |           |       |
| Ethylbenzene               | 19.72  | 1.0                      | 20      |               | 0    | 98.6 73-127    | 0             |                                   |           |       |
| Xylenes, Total             | 57.82  | 3.0                      | 60      |               | 0    | 96.4 74-127    | 0             |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 26.16  | 1.0                      | 30      |               | 0    | 87.2 75-131    | 0             |                                   |           |       |
| Surr: Trifluorotoluene     | 30.75  | 1.0                      | 30      |               | 0    | 103 73-130     | 0             |                                   |           |       |

| <b>MSD</b>                 |        | Sample ID: 1005814-42AMSD |         |               |      | Units: µg/Kg   |               | Analysis Date: 5/28/2010 02:53 AM |           |       |
|----------------------------|--------|---------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID: MW-17 100'      |        | Run ID: BTEX3_100527B     |         |               |      | SeqNo: 1978194 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                       | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | 19.82  | 1.0                       | 20      |               | 0    | 99.1 74-129    | 19.56         | 1.32                              | 30        |       |
| Toluene                    | 19.59  | 1.0                       | 20      |               | 0    | 98 75-128      | 19.24         | 1.82                              | 30        |       |
| Ethylbenzene               | 20.07  | 1.0                       | 20      |               | 0    | 100 73-127     | 19.72         | 1.79                              | 30        |       |
| Xylenes, Total             | 59.03  | 3.0                       | 60      |               | 0    | 98.4 74-127    | 57.82         | 2.06                              | 30        |       |
| Surr: 4-Bromofluorobenzene | 25.4   | 1.0                       | 30      |               | 0    | 84.7 75-131    | 26.16         | 2.92                              | 30        |       |
| Surr: Trifluorotoluene     | 29.86  | 1.0                       | 30      |               | 0    | 99.5 73-130    | 30.75         | 2.95                              | 30        |       |

The following samples were analyzed in this batch: 1005814-42A 1005814-45A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1005814  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R91913 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-052710-R91913 Units: mg/Kg Analysis Date: 5/27/2010 05:25 AM

Client ID: Run ID: FID-9\_100526B SeqNo: 1981090 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND      | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.07634 | 0.0050 | 0.1     | 0             | 76.3 | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-052710-R91913 Units: mg/Kg Analysis Date: 5/27/2010 04:37 AM

Client ID: Run ID: FID-9\_100526B SeqNo: 1981088 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.102   | 0.050  | 1       | 0             | 110  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08168 | 0.0050 | 0.1     | 0             | 81.7 | 70-130        | 0             |      |           |      |

MS Sample ID: 1005714-21BMS Units: mg/Kg Analysis Date: 5/27/2010 06:13 AM

Client ID: Run ID: FID-9\_100526B SeqNo: 1981092 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.143   | 0.050  | 1       | 0             | 114  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08256 | 0.0050 | 0.1     | 0             | 82.6 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005714-21BMSD Units: mg/Kg Analysis Date: 5/27/2010 06:37 AM

Client ID: Run ID: FID-9\_100526B SeqNo: 1981093 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Gasoline Range Organics    | 1.135   | 0.050  | 1       | 0             | 113  | 70-130        | 1.143         | 0.78  | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.08305 | 0.0050 | 0.1     | 0             | 83   | 70-130        | 0.08256       | 0.593 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005814-01B | 1005814-02B | 1005814-03B |
| 1005814-04B | 1005814-05B | 1005814-06B |
| 1005814-07B | 1005814-08B | 1005814-09B |
| 1005814-10B | 1005814-11B | 1005814-12B |
| 1005814-13B | 1005814-14B | 1005814-15B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1005814  
Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R91920 Instrument ID FID-9 Method: SW8015

|                            |         |                                |         |               |      |                |               |                                   |           |       |
|----------------------------|---------|--------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| MBLK                       |         | Sample ID: GBLKS-052710-R91920 |         |               |      | Units: mg/Kg   |               | Analysis Date: 5/27/2010 07:42 PM |           |       |
| Client ID:                 |         | Run ID: FID-9_100527A          |         |               |      | SeqNo: 1981270 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result  | PQL                            | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Gasoline Range Organics    | ND      | 0.050                          |         |               |      |                |               |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 0.07679 | 0.0050                         | 0.1     | 0             | 76.8 | 70-130         | 0             |                                   |           |       |

|                            |         |                                |         |               |      |                |               |                                   |           |       |
|----------------------------|---------|--------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| LCS                        |         | Sample ID: GLCSS-052710-R91920 |         |               |      | Units: mg/Kg   |               | Analysis Date: 5/27/2010 07:15 PM |           |       |
| Client ID:                 |         | Run ID: FID-9_100527A          |         |               |      | SeqNo: 1981268 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result  | PQL                            | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Gasoline Range Organics    | 1.161   | 0.050                          | 1       | 0             | 116  | 70-130         | 0             |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 0.08481 | 0.0050                         | 0.1     | 0             | 84.8 | 70-130         | 0             |                                   |           |       |

|                            |         |                          |         |               |      |                |               |                                   |           |       |
|----------------------------|---------|--------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| MS                         |         | Sample ID: 1005814-16BMS |         |               |      | Units: mg/Kg   |               | Analysis Date: 5/27/2010 08:30 PM |           |       |
| Client ID: MW-28 60'       |         | Run ID: FID-9_100527A    |         |               |      | SeqNo: 1981273 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result  | PQL                      | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Gasoline Range Organics    | 1.134   | 0.050                    | 1       | 0             | 113  | 70-130         | 0             |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 0.08418 | 0.0050                   | 0.1     | 0             | 84.2 | 70-130         | 0             |                                   |           |       |

|                            |         |                           |         |               |      |                |               |                                   |           |       |
|----------------------------|---------|---------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| MSD                        |         | Sample ID: 1005814-16BMSD |         |               |      | Units: mg/Kg   |               | Analysis Date: 5/27/2010 08:54 PM |           |       |
| Client ID: MW-28 60'       |         | Run ID: FID-9_100527A     |         |               |      | SeqNo: 1981274 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result  | PQL                       | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Gasoline Range Organics    | 1.133   | 0.050                     | 1       | 0             | 113  | 70-130         | 1.134         | 0.0758                            | 30        |       |
| Surr: 4-Bromofluorobenzene | 0.08338 | 0.0050                    | 0.1     | 0             | 83.4 | 70-130         | 0.08418       | 0.954                             | 30        |       |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005814-16B | 1005814-17B | 1005814-18B |
| 1005814-19B | 1005814-20B | 1005814-21B |
| 1005814-22B | 1005814-23B | 1005814-24B |
| 1005814-25B | 1005814-26B | 1005814-27B |
| 1005814-28B | 1005814-29B | 1005814-30B |
| 1005814-31B | 1005814-32B | 1005814-33B |
| 1005814-34B | 1005814-35B |             |

Client: Navajo Refining Company  
Work Order: 1005814  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R91941 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-052810-R91941 Units: mg/Kg Analysis Date: 5/28/2010 06:29 AM

Client ID: Run ID: FID-9\_100527B SeqNo: 1981658 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND      | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.07966 | 0.0050 | 0.1     | 0             | 79.7 | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-052810-R91941 Units: mg/Kg Analysis Date: 5/28/2010 06:05 AM

Client ID: Run ID: FID-9\_100527B SeqNo: 1981657 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.115   | 0.050  | 1       | 0             | 111  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08187 | 0.0050 | 0.1     | 0             | 81.9 | 70-130        | 0             |      |           |      |

MS Sample ID: 1005814-40BMS Units: mg/Kg Analysis Date: 5/28/2010 08:52 AM

Client ID: MW-17 80' Run ID: FID-9\_100527B SeqNo: 1981679 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.089   | 0.050  | 1       | 0             | 109  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08212 | 0.0050 | 0.1     | 0             | 82.1 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005814-40BMSD Units: mg/Kg Analysis Date: 5/28/2010 09:16 AM

Client ID: MW-17 80' Run ID: FID-9\_100527B SeqNo: 1981684 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD    | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|---------|-----------|------|
| Gasoline Range Organics    | 1.09    | 0.050  | 1       | 0             | 109  | 70-130        | 1.089         | 0.00624 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.08248 | 0.0050 | 0.1     | 0             | 82.5 | 70-130        | 0.08212       | 0.445   | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005814-36B | 1005814-37B | 1005814-38B |
| 1005814-39B | 1005814-40B | 1005814-41B |
| 1005814-42B | 1005814-45B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
 Work Order: 1005814  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: 43330 Instrument ID ICS3000 Method: E300

|                       |        |                                       |         |               |      |                       |               |                                          |           |              |
|-----------------------|--------|---------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| <b>MBLK</b>           |        | Sample ID: <b>WBLKS1-052810-43330</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>5/29/2010 11:31 AM</b> |           |              |
| Client ID:            |        | Run ID: <b>ICS3000_100529A</b>        |         |               |      | SeqNo: <b>1978716</b> |               | Prep Date: <b>5/26/2010</b>              |           | DF: <b>1</b> |
| Analyte               | Result | PQL                                   | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Chloride              | 2.96   | 5.0                                   |         |               |      |                       |               |                                          |           | J            |
| Surr: Selenate (surr) | 50.69  | 1.0                                   | 50      | 0             | 101  | 85-115                | 0             |                                          |           |              |

|                       |        |                                       |         |               |      |                       |               |                                          |           |              |
|-----------------------|--------|---------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| <b>LCS</b>            |        | Sample ID: <b>WLCSS1-052810-43330</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>5/29/2010 11:53 AM</b> |           |              |
| Client ID:            |        | Run ID: <b>ICS3000_100529A</b>        |         |               |      | SeqNo: <b>1978717</b> |               | Prep Date: <b>5/26/2010</b>              |           | DF: <b>1</b> |
| Analyte               | Result | PQL                                   | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Chloride              | 200.2  | 5.0                                   | 200     | 0             | 100  | 90-110                | 0             |                                          |           |              |
| Surr: Selenate (surr) | 49.62  | 1.0                                   | 50      | 0             | 99.2 | 85-115                | 0             |                                          |           |              |

|                       |        |                                 |         |               |      |                       |               |                                          |           |              |
|-----------------------|--------|---------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| <b>MS</b>             |        | Sample ID: <b>1005898-01AMS</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>5/29/2010 01:18 PM</b> |           |              |
| Client ID:            |        | Run ID: <b>ICS3000_100529A</b>  |         |               |      | SeqNo: <b>1978720</b> |               | Prep Date: <b>5/26/2010</b>              |           | DF: <b>1</b> |
| Analyte               | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Chloride              | 125.3  | 4.6                             | 92.94   | 33.07         | 99.3 | 75-125                | 0             |                                          |           |              |
| Surr: Selenate (surr) | 47.76  | 0.93                            | 46.47   | 0             | 103  | 80-120                | 0             |                                          |           |              |

|                             |        |                                 |         |               |      |                       |               |                                          |           |              |
|-----------------------------|--------|---------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| <b>MS</b>                   |        | Sample ID: <b>1005814-16BMS</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>5/29/2010 08:48 PM</b> |           |              |
| Client ID: <b>MW-28 60'</b> |        | Run ID: <b>ICS3000_100529A</b>  |         |               |      | SeqNo: <b>1978766</b> |               | Prep Date: <b>5/26/2010</b>              |           | DF: <b>1</b> |
| Analyte                     | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Chloride                    | 102.9  | 4.7                             | 94.52   | 9.641         | 98.6 | 75-125                | 0             |                                          |           |              |
| Surr: Selenate (surr)       | 48.77  | 0.94                            | 47.26   | 0             | 103  | 80-120                | 0             |                                          |           |              |

|                       |        |                                  |         |               |      |                       |               |                                          |           |              |
|-----------------------|--------|----------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| <b>MSD</b>            |        | Sample ID: <b>1005898-01AMSD</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>5/29/2010 01:39 PM</b> |           |              |
| Client ID:            |        | Run ID: <b>ICS3000_100529A</b>   |         |               |      | SeqNo: <b>1978721</b> |               | Prep Date: <b>5/26/2010</b>              |           | DF: <b>1</b> |
| Analyte               | Result | PQL                              | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Chloride              | 125    | 4.6                              | 92.94   | 33.07         | 98.9 | 75-125                | 125.3         | 0.282                                    | 20        |              |
| Surr: Selenate (surr) | 47.66  | 0.93                             | 46.47   | 0             | 103  | 80-120                | 47.76         | 0.214                                    | 20        |              |

|                             |        |                                  |         |               |      |                       |               |                                          |           |              |
|-----------------------------|--------|----------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| <b>MSD</b>                  |        | Sample ID: <b>1005814-16BMSD</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>5/29/2010 09:10 PM</b> |           |              |
| Client ID: <b>MW-28 60'</b> |        | Run ID: <b>ICS3000_100529A</b>   |         |               |      | SeqNo: <b>1978767</b> |               | Prep Date: <b>5/26/2010</b>              |           | DF: <b>1</b> |
| Analyte                     | Result | PQL                              | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Chloride                    | 102.9  | 4.7                              | 94.52   | 9.641         | 98.6 | 75-125                | 102.9         | 0.00919                                  | 20        |              |
| Surr: Selenate (surr)       | 48.71  | 0.94                             | 47.26   | 0             | 103  | 80-120                | 48.77         | 0.136                                    | 20        |              |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1005814  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: 43330

Instrument ID ICS3000

Method: E300

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005814-01B | 1005814-02B | 1005814-03B |
| 1005814-04B | 1005814-05B | 1005814-06B |
| 1005814-07B | 1005814-08B | 1005814-09B |
| 1005814-10B | 1005814-11B | 1005814-12B |
| 1005814-13B | 1005814-14B | 1005814-15B |
| 1005814-16B |             |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1005814  
**Project:** Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: 43359      Instrument ID ICS3000      Method: E300

**MS**      Sample ID: 1005814-17BMS      Units: mg/Kg      Analysis Date: 6/1/2010 03:23 PM  
 Client ID: MW-28 70'      Run ID: ICS3000\_100601A      SeqNo: 1979813      Prep Date: 5/28/2010      DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 101.3  | 4.8  | 97.09   | 3.99          | 100  | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 50.31  | 0.97 | 48.54   | 0             | 104  | 80-120        | 0             |      |           |      |

**MS**      Sample ID: 1005814-36BMS      Units: mg/Kg      Analysis Date: 6/2/2010 12:19 AM  
 Client ID: MW-17 40'      Run ID: ICS3000\_100601A      SeqNo: 1979850      Prep Date: 5/28/2010      DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 215.1  | 4.8  | 96.15   | 119.6         | 99.3 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 50.01  | 0.96 | 48.08   | 0             | 104  | 80-120        | 0             |      |           |      |

**MSD**      Sample ID: 1005814-17BMSD      Units: mg/Kg      Analysis Date: 6/1/2010 03:44 PM  
 Client ID: MW-28 70'      Run ID: ICS3000\_100601A      SeqNo: 1979814      Prep Date: 5/28/2010      DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Chloride              | 101    | 4.8  | 97.09   | 3.99          | 99.9 | 75-125        | 101.3         | 0.278 | 20        |      |
| Surr: Selenate (surr) | 50.07  | 0.97 | 48.54   | 0             | 103  | 80-120        | 50.31         | 0.484 | 20        |      |

**MSD**      Sample ID: 1005814-36BMSD      Units: mg/Kg      Analysis Date: 6/2/2010 12:41 AM  
 Client ID: MW-17 40'      Run ID: ICS3000\_100601A      SeqNo: 1979851      Prep Date: 5/28/2010      DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD   | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|--------|-----------|------|
| Chloride              | 214.8  | 4.8  | 96.15   | 119.6         | 99   | 75-125        | 215.1         | 0.13   | 20        |      |
| Surr: Selenate (surr) | 50.02  | 0.96 | 48.08   | 0             | 104  | 80-120        | 50.01         | 0.0192 | 20        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005814-17B | 1005814-18B | 1005814-19B |
| 1005814-20B | 1005814-21B | 1005814-22B |
| 1005814-23B | 1005814-24B | 1005814-25B |
| 1005814-26B | 1005814-27B | 1005814-28B |
| 1005814-29B | 1005814-30B | 1005814-31B |
| 1005814-32B | 1005814-33B | 1005814-34B |
| 1005814-35B | 1005814-36B |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005814  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: 43394 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS1-060110-43394 Units: mg/Kg Analysis Date: 6/3/2010 06:13 AM

Client ID: Run ID: ICS2100\_100602B SeqNo: 1981638 Prep Date: DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Surr: Selenate (surr) | 4.738  | 1.0 | 5       | 0             | 94.8 | 85-115        | 0             |      |           |      |

LCS Sample ID: WLCSS1-060110-43394 Units: mg/Kg Analysis Date: 6/3/2010 06:27 AM

Client ID: Run ID: ICS2100\_100602B SeqNo: 1981639 Prep Date: DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 19.52  | 5.0 | 20      | 0             | 97.6 | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 4.837  | 1.0 | 5       | 0             | 96.7 | 85-115        | 0             |      |           |      |

MS Sample ID: 1005814-37BMS Units: mg/Kg Analysis Date: 6/3/2010 06:56 AM

Client ID: MW-17 50' Run ID: ICS2100\_100602B SeqNo: 1981641 Prep Date: 6/1/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 169.9  | 4.7  | 93.81   | 79            | 97   | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 46.12  | 0.94 | 46.9    | 0             | 98.3 | 80-120        | 0             |      |           |      |

MSD Sample ID: 1005814-37BMSD Units: mg/Kg Analysis Date: 6/3/2010 07:11 AM

Client ID: MW-17 50' Run ID: ICS2100\_100602B SeqNo: 1981642 Prep Date: 6/1/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Chloride              | 169.2  | 4.7  | 93.81   | 79            | 96.2 | 75-125        | 169.9         | 0.415 | 20        |      |
| Surr: Selenate (surr) | 45.55  | 0.94 | 46.9    | 0             | 97.1 | 80-120        | 46.12         | 1.23  | 20        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005814-37B | 1005814-38B | 1005814-39B |
| 1005814-40B | 1005814-41B | 1005814-42B |
| 1005814-45B |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

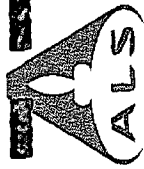
**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**WorkOrder:** 1005814

## **QUALIFIERS, ACRONYMS, UNITS**

| <u>Qualifier</u> | <u>Description</u>                                                        |
|------------------|---------------------------------------------------------------------------|
| *                | Value exceeds Regulatory Limit                                            |
| a                | Not accredited                                                            |
| B                | Analyte detected in the associated Method Blank above the Reporting Limit |
| E                | Value above quantitation range                                            |
| H                | Analyzed outside of Holding Time                                          |
| J                | Analyte detected below quantitation limit                                 |
| M                | Manually integrated, see raw data for justification                       |
| n                | Not offered for accreditation                                             |
| ND               | Not Detected at the Reporting Limit                                       |
| O                | Sample amount is > 4 times amount spiked                                  |
| P                | Dual Column results percent difference > 40%                              |
| R                | RPD above laboratory control limit                                        |
| S                | Spike Recovery outside laboratory control limits                          |
| U                | Analyzed but not detected above the MDL                                   |

| <u>Acronym</u> | <u>Description</u>                  |
|----------------|-------------------------------------|
| DUP            | Method Duplicate                    |
| LCS            | Laboratory Control Sample           |
| LCSD           | Laboratory Control Sample Duplicate |
| MBLK           | Method Blank                        |
| MDL            | Method Detection Limit              |
| MQL            | Method Quantitation Limit           |
| MS             | Matrix Spike                        |
| MSD            | Matrix Spike Duplicate              |
| PDS            | Post Digestion Spike                |
| PQL            | Practical Quantitation Limit        |
| SD             | Serial Dilution                     |
| SDL            | Sample Detection Limit              |
| TRRP           | Texas Risk Reduction Program        |

| <u>Units Reported</u> | <u>Description</u>      |
|-----------------------|-------------------------|
| mg/Kg                 | Milligrams per Kilogram |
| mg/L                  | Milligrams per Liter    |



10430 Starchur Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

ALS Laboratory Group

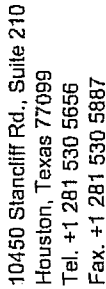
3352 128th Ave.  
Holland, MI 49424-9263  
Tel: +1 616 399 6070  
Fax: +1 616 399 6185

Page 1 of 5

| Customer Information |                    |         |      | Project Information     |       |          |   | ALS Project Manager: [Signature]      |   |   |   |   |   |   |   |   |      |  |  | ALS Work Order #: 10584 |  |  |  |  |  |  |  |  |  |  |  |
|----------------------|--------------------|---------|------|-------------------------|-------|----------|---|---------------------------------------|---|---|---|---|---|---|---|---|------|--|--|-------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Project Name         |                    |         |      | Lea Refinery New Wells  |       |          |   | Parameter/Method Request for Analysis |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Project Number       |                    |         |      | NAV-10-003              |       |          |   | A BTEX (8021)                         |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Bill To Company      |                    |         |      | Navajo Refining Company |       |          |   | B GRO (8015M)                         |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Invoice Attn         |                    |         |      | Darrell Moore           |       |          |   | C DRO (8015M)                         |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| P.O. Box 159         |                    |         |      | P.O. Box 159            |       |          |   | D ORO (8015M)                         |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| City/State/Zip       |                    |         |      | Artesia, NM 88211       |       |          |   | E Anions (300) Cl                     |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Phone                |                    |         |      | (505) 748-3311          |       |          |   | F                                     |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Fax                  |                    |         |      | (505) 746-5421          |       |          |   | G                                     |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| e-Mail Address       |                    |         |      | dgboyer@SES-1-NM.com    |       |          |   | H                                     |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| No.                  | Sample Description | Date    | Time | Matrix                  | Pres. | #Bottles | A | B                                     | C | D | E | F | G | H | I | J | Hold |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 1                    | MW-21 10'          | 5/24/10 | 0755 | 501                     | 8     | 2        | X | X                                     | X | X | X |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 2                    | 20'                |         | 0815 |                         |       |          |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 3                    | 30'                |         | 0835 |                         |       |          |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 4                    | 40'                |         | 0845 |                         |       |          |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 5                    | 50'                |         | 0900 |                         |       |          |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 6                    | 60'                |         | 0910 |                         |       |          |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 7                    | 70'                |         | 0920 |                         |       |          |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 8                    | 80'                |         | 0930 |                         |       |          |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 9                    | 90'                |         | 0940 |                         |       |          |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 10                   | MW-21 95'          | 5/24/10 | 0940 | 501                     | 8     | 2        | X | X                                     | X | X | X |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |

| Sampler(s) Please Print & Sign                                                                                                                                            |       | Shipment Method |            | Required Turnaround Time (Check Box) |               | Results Due Date: |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------|------------|--------------------------------------|---------------|-------------------|---------------|
| D. BOYER                                                                                                                                                                  | Boyer | Fed Ex          |            | Std 10 Wk Days                       | Std 5 Wk Days | Std 2 Wk Days     | Std 1 Wk Days |
| Relinquished by: [Signature]                                                                                                                                              |       | Date: 5/24/10   | Time: 0900 | Received by: [Signature]             |               | Date: 5/25/10     | Time: 0945    |
| Relinquished by: [Signature]                                                                                                                                              |       | Date: 5/24/10   | Time: 0900 | Received by: [Signature]             |               | Date: 5/25/10     | Time: 0945    |
| Logged by [Laboratory]:                                                                                                                                                   |       | Date:           | Time:      | Checked by [Laboratory]:             |               | Date:             | Time:         |
| Preservative Key: 1-HCl, 2-HNO <sub>3</sub> , 3-H <sub>2</sub> SO <sub>4</sub> , 4-NaOH, 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 6-NaHSO <sub>4</sub> , 7-Other |       | 8-4°C           |            | 9-5095                               |               |                   |               |

| QC Packages (Check One Box Below)                   |                                                    | Cooler Temp                                  |                                | Cooler ID                                                     |                                                    | Cooler Temp                                        |                                                    |
|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------|--------------------------------|---------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| <input checked="" type="checkbox"/> Level II Std OC | <input type="checkbox"/> Level III Std OC/RAW Data | <input type="checkbox"/> Level IV SW/SLP/CLP | <input type="checkbox"/> Other | <input checked="" type="checkbox"/> 10 Day TAT, Cc Dave Boyer | <input type="checkbox"/> 10 Day TAT, Cc Dave Boyer | <input type="checkbox"/> 10 Day TAT, Cc Dave Boyer | <input type="checkbox"/> 10 Day TAT, Cc Dave Boyer |



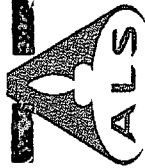
3352 128th Ave.  
Holland, MI 49424-9263  
Tel: +1 616 399 6070  
Fax: +1 616 399 6185

| Customer Information                           |              |                |              | Project Information            |              |                |              | ALS Project Manager: <u>ALS Work Order #: 105814</u> |              |                |              |                                   |              |                |              |                                                                                                                                                                                                                  |              |                |  |
|------------------------------------------------|--------------|----------------|--------------|--------------------------------|--------------|----------------|--------------|------------------------------------------------------|--------------|----------------|--------------|-----------------------------------|--------------|----------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|--|
| Customer Information                           |              |                |              | Project Information            |              |                |              | Parameter/Method Request for Analysis                |              |                |              |                                   |              |                |              |                                                                                                                                                                                                                  |              |                |  |
| Purchase Order                                 | Project Name | Project Number | Project Name | Project Number                 | Project Name | Project Number | Project Name | Project Number                                       | Project Name | Project Number | Project Name | Project Number                    | Project Name | Project Number | Project Name | Project Number                                                                                                                                                                                                   | Project Name | Project Number |  |
| MW-28                                          | 10'          | 5/23/10        | 0835         | Soil                           | B            | 2              | X            | X                                                    | X            | X              | X            | X                                 | X            | X              | X            | X                                                                                                                                                                                                                | X            | X              |  |
| 20'                                            | 0845         |                |              |                                |              |                |              |                                                      |              |                |              |                                   |              |                |              |                                                                                                                                                                                                                  |              |                |  |
| 30'                                            | 0855         |                |              |                                |              |                |              |                                                      |              |                |              |                                   |              |                |              |                                                                                                                                                                                                                  |              |                |  |
| 40'                                            | 0905         |                |              |                                |              |                |              |                                                      |              |                |              |                                   |              |                |              |                                                                                                                                                                                                                  |              |                |  |
| 50'                                            | 0915         |                |              |                                |              |                |              |                                                      |              |                |              |                                   |              |                |              |                                                                                                                                                                                                                  |              |                |  |
| 60'                                            | 0935         |                |              |                                |              |                |              |                                                      |              |                |              |                                   |              |                |              |                                                                                                                                                                                                                  |              |                |  |
| 70'                                            | 0950         |                |              |                                |              |                |              |                                                      |              |                |              |                                   |              |                |              |                                                                                                                                                                                                                  |              |                |  |
| 80'                                            | 1000         |                |              |                                |              |                |              |                                                      |              |                |              |                                   |              |                |              |                                                                                                                                                                                                                  |              |                |  |
| 90'                                            | 1010         |                |              |                                |              |                |              |                                                      |              |                |              |                                   |              |                |              |                                                                                                                                                                                                                  |              |                |  |
| MW-28                                          | 100'         | 5/23/10        | 1020         | Soil                           | B            | 2              | X            | X                                                    | X            | X              | X            | X                                 | X            | X              | X            | X                                                                                                                                                                                                                | X            | X              |  |
| Sample(s) Please Print & Sign: <u>D. Boyer</u> |              |                |              | Shipment Method: <u>Fed Ex</u> |              |                |              | Required Turnaround Time: <u>5 WMC Days</u>          |              |                |              | Cooler Temp: <u>5 WMC Days</u>    |              |                |              | Results Due Date: <u>24 Hour</u>                                                                                                                                                                                 |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes: <u>10 Day TAT. Co. Dave Boyer</u>             |              |                |              | QC Package: (Check One Box Below) |              |                |              | Level I Std QC <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other <input type="checkbox"/> |              |                |  |
| Relinquished by: <u>D. Boyer</u>               |              |                |              | Received by: <u>D. Boyer</u>   |              |                |              | Notes:                                               |              |                |              |                                   |              |                |              |                                                                                                                                                                                                                  |              |                |  |

note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

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Chain of Custody Form

ALS Laboratory Group  
3352 128th Ave.  
Holland, MI 49424-9263  
Tel: +1 616 399 6070  
Fax: +1 616 399 6185

Page 3 of 5

| Customer Information |                    |         |      | Project Information     |       |           |   | ALS Project Manager: [Signature] ALS Work Order #: 105814 |   |   |   |   |   |   |   |   |      |  |  |
|----------------------|--------------------|---------|------|-------------------------|-------|-----------|---|-----------------------------------------------------------|---|---|---|---|---|---|---|---|------|--|--|
| Project Name         |                    |         |      | Lea Refinery New Wells  |       |           |   | Parameter/Method Request for Analysis                     |   |   |   |   |   |   |   |   |      |  |  |
| Project Number       |                    |         |      | NAV-10-003              |       |           |   | A BTEX (8021)                                             |   |   |   |   |   |   |   |   |      |  |  |
| Bill To Company      |                    |         |      | Navajo Refining Company |       |           |   | B GRO (8015M)                                             |   |   |   |   |   |   |   |   |      |  |  |
| Invoice Attn         |                    |         |      | Darrell Moore           |       |           |   | C DRO (8015M)                                             |   |   |   |   |   |   |   |   |      |  |  |
| Address              |                    |         |      | P.O. Box 159            |       |           |   | D ORO (8015M)                                             |   |   |   |   |   |   |   |   |      |  |  |
| City/State/Zip       |                    |         |      | Artesia, NM 88211       |       |           |   | E Anions (300) CI                                         |   |   |   |   |   |   |   |   |      |  |  |
| Phone                |                    |         |      | (505) 748-3311          |       |           |   | F                                                         |   |   |   |   |   |   |   |   |      |  |  |
| Fax                  |                    |         |      | (505) 746-5421          |       |           |   | G                                                         |   |   |   |   |   |   |   |   |      |  |  |
| e-Mail Address       |                    |         |      | dmoore@SES-1-NM.com     |       |           |   | H                                                         |   |   |   |   |   |   |   |   |      |  |  |
| No.                  | Sample Description | Date    | Time | Matrix                  | Pres. | # Bottles | A | B                                                         | C | D | E | F | G | H | I | J | Hold |  |  |
| 1                    | MW-28 105'         | 5/22/10 | 1025 | Soil                    | 8     | 2         | X | X                                                         | X | X | X |   |   |   |   |   |      |  |  |
| 2                    | MW-15 10'          |         | 1440 |                         |       |           |   |                                                           |   |   |   |   |   |   |   |   |      |  |  |
| 3                    | 20'                |         | 1450 |                         |       |           |   |                                                           |   |   |   |   |   |   |   |   |      |  |  |
| 4                    | 30'                |         | 1515 |                         |       |           |   |                                                           |   |   |   |   |   |   |   |   |      |  |  |
| 5                    | 40'                |         | 1525 |                         |       |           |   |                                                           |   |   |   |   |   |   |   |   |      |  |  |
| 6                    | 55'                |         | 1540 |                         |       |           |   |                                                           |   |   |   |   |   |   |   |   |      |  |  |
| 7                    | 60'                |         | 1600 |                         |       |           |   |                                                           |   |   |   |   |   |   |   |   |      |  |  |
| 8                    | 70'                |         | 1615 |                         |       |           |   |                                                           |   |   |   |   |   |   |   |   |      |  |  |
| 9                    | 80'                |         | 1625 |                         |       |           |   |                                                           |   |   |   |   |   |   |   |   |      |  |  |
| 10                   | MW-15 90'          | 5/22/10 | 1635 | Soil                    | 8     | 2         | X | X                                                         | X | X | X |   |   |   |   |   |      |  |  |

| Sampler(s) Please Print & Sign |                                                                                                                                                                         | Shipment Method |                           | Required Turnaround Time (Check Box)   |            | Results Due Date                   |                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------|----------------------------------------|------------|------------------------------------|---------------------------------------------------------------------------|
| Boyer, D. F.                   |                                                                                                                                                                         | FedEx           |                           | [X] 24 Hours [ ] 48 Hours [ ] 72 Hours |            | [ ] 1 Week [ ] 2 Weeks [ ] 3 Weeks |                                                                           |
| Relinquished by:               | Date: 5/24/10                                                                                                                                                           | Time: 0900      | Received by:              | Date: 5/25/10                          | Time: 0900 | Notes:                             | 10 Day TAT. Co Dave Boyer                                                 |
| Relinquished by:               | Date:                                                                                                                                                                   | Time:           | Received by (Laboratory): | Date:                                  | Time:      | QC Package: (Check One Box Below)  | Level II Std QC [X] Level III Std QC [ ] Level IV SW646/CLP [ ] Other [ ] |
| Logged by (Laboratory):        | Date:                                                                                                                                                                   | Time:           | Checked by (Laboratory):  | Date:                                  | Time:      | TRRP Check List                    | TRRP Level IV [ ]                                                         |
| Preservative Key:              | 1-HCl; 2-HNO <sub>3</sub> ; 3-H <sub>2</sub> SO <sub>4</sub> ; 4-NaOH; 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ; 6-NaHSO <sub>3</sub> ; 7-Other: 8-4°C; 9-50/95 |                 |                           |                                        |            |                                    |                                                                           |

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.  
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.  
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Fax: +1 616 399 6185

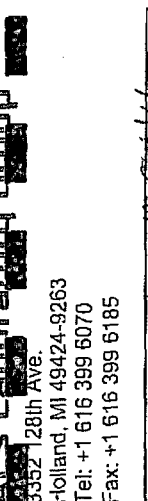
Page 4 of 5

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2. Unless otherwise noted in a formal contract provided by ALS Laboratory Group, analyses are limited to the

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Holland, MI 49424-9263  
Tel: +1 616 399 5070  
Fax: +1 616 399 6185

ALS Work Order #: 10515

### Parameter/Method Request for Analysis

[illegible]

|                                                                                                      |               |            |                                                                                                  |                                  |
|------------------------------------------------------------------------------------------------------|---------------|------------|--------------------------------------------------------------------------------------------------|----------------------------------|
| Relinquished by:  | Date: 5/24/72 | Time: 2:30 | Received by:  | Notes: 10 Day TAT. Co Dave Boyer |
|------------------------------------------------------------------------------------------------------|---------------|------------|--------------------------------------------------------------------------------------------------|----------------------------------|

|                                             |                                                               |                                        |
|---------------------------------------------|---------------------------------------------------------------|----------------------------------------|
| <input type="checkbox"/> Level III Std QC   | <input checked="" type="checkbox"/> Level III Std QC/Row Data | <input type="checkbox"/> TRIP Chemical |
| <input type="checkbox"/> Level IV SWG46/CLP | <input type="checkbox"/> Other                                |                                        |

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2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.  
3. The Chain of Custody is a legal document. All information must be completed accurately.

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te 5/24/10 FedEx Tracking Number

869809950735

nder's  
me

B. Boyer

Phone

713-397-0910

Company

SEST

Address

703 E. Clinton

Dept./Floor/Suite/Room

1783

y

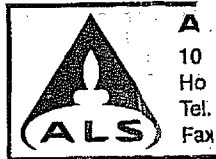
Hobbs

State NM ZIP

88040

Internal Billing Reference

NAU-10-003



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Laboratory Group

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Date:

Name:

Company:

CUSTODY SEAL

Date:

Time: 0800

Seal Broken By:

Date:

This portion can be removed for recipient's records.

e 5/24/10 FedEx Tracking Number

872096703955

nder's  
ne

B. Boyer

Phone

713-397-0910

Company

SEST

Address

703 E. Clinton

Dept./Floor/Suite/Room

3406

Internal Billing Reference

NAU-10-003



ALS Laboratory Group

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Houston, Texas 77099

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Fax. +1 281 530 5887

CUSTODY SEAL

Date:

Name:

Company:

Date:

Time: 0800

Seal Broken By:

Date:

Sample Receipt Checklist

Client Name: **NAVAJO REFINING**

Date/Time Received: **25-May-10 09:45**

Work Order: **1005814**

Received by: **RDH**

Checklist completed by Robert D. Harris 25-May-10  
eSignature Date

Reviewed by: Jay Lynn F Thibault 28-May-10  
eSignature Date

Matrices: soils/waters

Carrier name: FedEx

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☒ No ☐ Not Present ☐

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☐ No ☒

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Temperature(s)/Thermometer(s): 1.8c, 0.8c 002

Cooler(s)/Kit(s): 1703.3406

Water - VOA vials have zero headspace? Yes ☒ No ☐ No VOA vials submitted ☐

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes: Sample MW-17 sampled at 13:00 not on COC; logged in at end of WO with analysis.

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

# ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



## Environmental Division

15-Jun-2010

Darrell Moore  
Navajo Refining Company  
PO Box 159  
Artesia, NM 88211

Tel: (575) 748-6733  
Fax: (575) 746-5421

Re: Lea Refinery New Wells

Work Order: 1005946

Dear Darrell,

ALS Laboratory Group received 47 samples on 28-May-2010 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 80.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

*JayLynn F Thibault*

Electronically approved by: Tiffany Van

JayLynn F Thibault  
Project Manager



Certificate No: T104704231-09A-TX

### ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancil Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

[www.alsglobal.com](http://www.alsglobal.com) [www.elabi.com](http://www.elabi.com)

A Campbell Brothers Limited Company

Client: Navajo Refining Company  
 Project: Lea Refinery New Wells  
 Work Order: 1005946

## Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1005946-01         | MW-16 10'               | Soil          |                   | 5/24/2010 09:50        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-02         | MW-16 20'               | Soil          |                   | 5/24/2010 10:05        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-03         | MW-16 30'               | Soil          |                   | 5/24/2010 10:15        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-04         | MW-16 40'               | Soil          |                   | 5/24/2010 10:25        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-05         | MW-16 50'               | Soil          |                   | 5/24/2010 10:40        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-06         | MW-16 60'               | Soil          |                   | 5/24/2010 10:50        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-07         | MW-16 70'               | Soil          |                   | 5/24/2010 11:00        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-08         | MW-16 80'               | Soil          |                   | 5/24/2010 11:20        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-09         | MW-16 90'               | Soil          |                   | 5/24/2010 11:30        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-10         | MW-16 100'              | Soil          |                   | 5/24/2010 11:24        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-11         | MW-16 105'              | Soil          |                   | 5/24/2010 11:50        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-12         | MW-22 5-10'             | Soil          |                   | 5/25/2010 10:30        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-13         | MW-22 20'               | Soil          |                   | 5/25/2010 10:40        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-14         | MW-22 30'               | Soil          |                   | 5/25/2010 10:50        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-15         | MW-22 40'               | Soil          |                   | 5/25/2010 11:00        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-16         | MW-22 50'               | Soil          |                   | 5/25/2010 11:10        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-17         | MW-22 60'               | Soil          |                   | 5/25/2010 11:20        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-18         | MW-22 70'               | Soil          |                   | 5/25/2010 11:30        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-19         | MW-22 80'               | Soil          |                   | 5/25/2010 11:40        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-20         | MW-22 90'               | Soil          |                   | 5/25/2010 11:50        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-21         | MW-22 95'               | Soil          |                   | 5/25/2010 12:00        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-22         | MW-23 10'               | Soil          |                   | 5/26/2010 08:20        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-23         | MW-23 20'               | Soil          |                   | 5/26/2010 08:30        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-24         | MW-23 30'               | Soil          |                   | 5/26/2010 08:40        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-25         | MW-23 40'               | Soil          |                   | 5/26/2010 08:50        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-26         | MW-23 50'               | Soil          |                   | 5/26/2010 09:05        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-27         | MW-23 60'               | Soil          |                   | 5/26/2010 09:15        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-28         | MW-23 70'               | Soil          |                   | 5/26/2010 09:30        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-29         | MW-23 80'               | Soil          |                   | 5/26/2010 09:45        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-30         | MW-23 90'               | Soil          |                   | 5/26/2010 09:55        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-31         | MW-23 95'               | Soil          |                   | 5/26/2010 10:05        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-32         | MW-23 100'              | Soil          |                   | 5/26/2010 10:15        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-33         | MW-24 10'               | Soil          |                   | 5/26/2010 15:05        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-34         | MW-24 20'               | Soil          |                   | 5/26/2010 15:20        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-35         | MW-24 30'               | Soil          |                   | 5/26/2010 15:30        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-36         | MW-24 40'               | Soil          |                   | 5/26/2010 15:40        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-37         | MW-24 50'               | Soil          |                   | 5/26/2010 15:50        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-38         | MW-24 60'               | Soil          |                   | 5/26/2010 16:05        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-39         | MW-24 70'               | Soil          |                   | 5/26/2010 16:20        | 5/28/2010 09:00      | <input type="checkbox"/> |

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Work Order:** 1005946

## Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1005946-40         | MW-24 80'               | Soil          |                   | 5/26/2010 16:35        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-41         | MW-24 90'               | Soil          |                   | 5/26/2010 16:45        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-42         | MW-24 95'               | Soil          |                   | 5/26/2010 16:50        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-43         | MW-24 100'              | Soil          |                   | 5/26/2010 17:00        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-44         | MW-24 105'              | Soil          |                   | 5/26/2010 17:15        | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-45         | Trip Blank 051710-90    | Water         |                   | 5/26/2010              | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-46         | Trip Blank 051710-08    | Water         |                   | 5/26/2010              | 5/28/2010 09:00      | <input type="checkbox"/> |
| 1005946-47         | MW-16 15'               | Soil          |                   | 5/24/2010 10:00        | 5/28/2010 09:00      | <input type="checkbox"/> |

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Work Order:** 1005946

**Case Narrative**

Batch R92083 BTEX (Sample 1005946-25) recovery out of control limits for surrogate.  
Confirmed by re-analysis.

TPH (samples 1005946-03, 04, 08, 09, 11 and 13) recovery high out of control limits for surrogate. Samples are non detect.



Client: Navajo Refining Company  
Project: Lea Refinery New Wells  
Sample ID: MW-16 10'  
Collection Date: 5/24/2010 09:50 AM

Work Order: 1005946  
Lab ID: 1005946-01  
Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 12:31 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 12:31 PM |
| Surr: 2-Fluorobiphenyl         | 100    |      | 70-130         | %REC  | 1                   | 6/7/2010 12:31 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 02:49 AM |
| Surr: 4-Bromofluorobenzene     | 94.4   |      | 70-130         | %REC  | 1                   | 6/6/2010 02:49 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/2/2010 03:26 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/2/2010 03:26 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/2/2010 03:26 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/2/2010 03:26 AM |
| Surr: 4-Bromofluorobenzene     | 85.7   |      | 75-131         | %REC  | 1                   | 6/2/2010 03:26 AM |
| Surr: Trifluorotoluene         | 100    |      | 73-130         | %REC  | 1                   | 6/2/2010 03:26 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 39.0   |      | 5.00           | mg/Kg | 1                   | 6/4/2010 11:03 PM |
| Surr: Selenate (surr)          | 97.3   |      | 85-115         | %REC  | 1                   | 6/4/2010 11:03 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-16 20'  
**Collection Date:** 5/24/2010 10:05 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-02  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 12:51 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 12:51 PM |
| Surr: 2-Fluorobiphenyl         | 118    |      | 70-130         | %REC  | 1                   | 6/7/2010 12:51 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | 0.32   |      | 0.050          | mg/Kg | 1                   | 6/6/2010 03:12 AM |
| Surr: 4-Bromofluorobenzene     | 99.9   |      | 70-130         | %REC  | 1                   | 6/6/2010 03:12 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 12:27 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 12:27 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 12:27 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 12:27 PM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 75-131         | %REC  | 1                   | 6/5/2010 12:27 PM |
| Surr: Trifluorotoluene         | 99.1   |      | 73-130         | %REC  | 1                   | 6/5/2010 12:27 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 4.99           | mg/Kg | 1                   | 6/4/2010 11:46 PM |
| Surr: Selenate (surr)          | 95.3   |      | 85-115         | %REC  | 1                   | 6/4/2010 11:46 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-16 30'

Lab ID: 1005946-03

Collection Date: 5/24/2010 10:15 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 01:49 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 01:49 PM |
| Surr: 2-Fluorobiphenyl         | 136    | S    | 70-130         | %REC  | 1                   | 6/7/2010 01:49 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 03:36 AM |
| Surr: 4-Bromofluorobenzene     | 99.8   |      | 70-130         | %REC  | 1                   | 6/6/2010 03:36 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 12:46 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 12:46 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 12:46 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 12:46 PM |
| Surr: 4-Bromofluorobenzene     | 112    |      | 75-131         | %REC  | 1                   | 6/5/2010 12:46 PM |
| Surr: Trifluorotoluene         | 99.0   |      | 73-130         | %REC  | 1                   | 6/5/2010 12:46 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 4.95           | mg/Kg | 1                   | 6/5/2010 12:01 AM |
| Surr: Selenate (surr)          | 98.3   |      | 85-115         | %REC  | 1                   | 6/5/2010 12:01 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-16 40'

Lab ID: 1005946-04

Collection Date: 5/24/2010 10:25 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 02:08 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 02:08 PM |
| Surr: 2-Fluorobiphenyl         | 133    | S    | 70-130         | %REC  | 1                   | 6/7/2010 02:08 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 03:59 AM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 70-130         | %REC  | 1                   | 6/6/2010 03:59 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 01:07 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 01:07 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 01:07 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 01:07 PM |
| Surr: 4-Bromofluorobenzene     | 114    |      | 75-131         | %REC  | 1                   | 6/5/2010 01:07 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                   | 6/5/2010 01:07 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 4.98           | mg/Kg | 1                   | 6/5/2010 12:15 AM |
| Surr: Selenate (surr)          | 98.5   |      | 85-115         | %REC  | 1                   | 6/5/2010 12:15 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company  
 Project: Lea Refinery New Wells  
 Sample ID: MW-16 50'  
 Collection Date: 5/24/2010 10:40 AM

Work Order: 1005946  
 Lab ID: 1005946-05  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 03:06 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 03:06 PM |
| Surr: 2-Fluorobiphenyl         | 116    |      | 70-130         | %REC  | 1                   | 6/7/2010 03:06 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 04:22 AM |
| Surr: 4-Bromofluorobenzene     | 100    |      | 70-130         | %REC  | 1                   | 6/6/2010 04:22 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 01:27 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 01:27 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 01:27 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 01:27 PM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 75-131         | %REC  | 1                   | 6/5/2010 01:27 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                   | 6/5/2010 01:27 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 12.8   |      | 5.00           | mg/Kg | 1                   | 6/5/2010 12:30 AM |
| Surr: Selenate (surr)          | 97.5   |      | 85-115         | %REC  | 1                   | 6/5/2010 12:30 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-16 60'  
**Collection Date:** 5/24/2010 10:50 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-06  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 03:26 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 03:26 PM |
| Surr: 2-Fluorobiphenyl         | 108    |      | 70-130         | %REC  | 1                   | 6/7/2010 03:26 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 04:46 AM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 70-130         | %REC  | 1                   | 6/6/2010 04:46 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 02:34 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 02:34 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 02:34 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 02:34 PM |
| Surr: 4-Bromofluorobenzene     | 113    |      | 75-131         | %REC  | 1                   | 6/5/2010 02:34 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                   | 6/5/2010 02:34 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 4.98           | mg/Kg | 1                   | 6/5/2010 12:44 AM |
| Surr: Selenate (surr)          | 98.3   |      | 85-115         | %REC  | 1                   | 6/5/2010 12:44 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-16 70'

Lab ID: 1005946-07

Collection Date: 5/24/2010 11:00 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 03:45 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 03:45 PM |
| Surr: 2-Fluorobiphenyl         | 114    |      | 70-130         | %REC  | 1                   | 6/7/2010 03:45 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 06:19 AM |
| Surr: 4-Bromofluorobenzene     | 97.1   |      | 70-130         | %REC  | 1                   | 6/6/2010 06:19 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 02:55 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 02:55 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 02:55 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 02:55 PM |
| Surr: 4-Bromofluorobenzene     | 114    |      | 75-131         | %REC  | 1                   | 6/5/2010 02:55 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                   | 6/5/2010 02:55 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 4.95           | mg/Kg | 1                   | 6/5/2010 01:28 AM |
| Surr: Selenate (surr)          | 96.6   |      | 85-115         | %REC  | 1                   | 6/5/2010 01:28 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-16 80'

Lab ID: 1005946-08

Collection Date: 5/24/2010 11:20 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 05:59 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 05:59 PM |
| Surr: 2-Fluorobiphenyl         | 138    | S    | 70-130         | %REC  | 1                   | 6/7/2010 05:59 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 07:28 AM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 70-130         | %REC  | 1                   | 6/6/2010 07:28 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 03:43 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 03:43 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 03:43 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 03:43 PM |
| Surr: 4-Bromofluorobenzene     | 114    |      | 75-131         | %REC  | 1                   | 6/5/2010 03:43 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                   | 6/5/2010 03:43 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 4.99           | mg/Kg | 1                   | 6/5/2010 01:43 AM |
| Surr: Selenate (surr)          | 98.0   |      | 85-115         | %REC  | 1                   | 6/5/2010 01:43 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-16 90'

Lab ID: 1005946-09

Collection Date: 5/24/2010 11:30 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 06:19 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 06:19 PM |
| Surr: 2-Fluorobiphenyl         | 153    | S    | 70-130         | %REC  | 1                   | 6/7/2010 06:19 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 07:51 AM |
| Surr: 4-Bromofluorobenzene     | 100    |      | 70-130         | %REC  | 1                   | 6/6/2010 07:51 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 04:03 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 04:03 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 04:03 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 04:03 PM |
| Surr: 4-Bromofluorobenzene     | 112    |      | 75-131         | %REC  | 1                   | 6/5/2010 04:03 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                   | 6/5/2010 04:03 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 4.98           | mg/Kg | 1                   | 6/5/2010 01:57 AM |
| Surr: Selenate (surr)          | 97.7   |      | 85-115         | %REC  | 1                   | 6/5/2010 01:57 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-16 100'  
**Collection Date:** 5/24/2010 11:24 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-10  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 06:38 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 06:38 PM |
| Surr: 2-Fluorobiphenyl         | 119    |      | 70-130         | %REC  | 1                   | 6/7/2010 06:38 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 08:15 AM |
| Surr: 4-Bromofluorobenzene     | 99.3   |      | 70-130         | %REC  | 1                   | 6/6/2010 08:15 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 04:23 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 04:23 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 04:23 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 04:23 PM |
| Surr: 4-Bromofluorobenzene     | 113    |      | 75-131         | %REC  | 1                   | 6/5/2010 04:23 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                   | 6/5/2010 04:23 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 5.00           | mg/Kg | 1                   | 6/5/2010 03:07 PM |
| Surr: Selenate (surr)          | 95.4   |      | 85-115         | %REC  | 1                   | 6/5/2010 03:07 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-16 105'  
**Collection Date:** 5/24/2010 11:50 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-11  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 06:57 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 06:57 PM |
| Surr: 2-Fluorobiphenyl         | 146    | S    | 70-130         | %REC  | 1                   | 6/7/2010 06:57 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 08:38 AM |
| Surr: 4-Bromofluorobenzene     | 93.3   |      | 70-130         | %REC  | 1                   | 6/6/2010 08:38 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 04:43 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 04:43 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 04:43 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 04:43 PM |
| Surr: 4-Bromofluorobenzene     | 104    |      | 75-131         | %REC  | 1                   | 6/5/2010 04:43 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                   | 6/5/2010 04:43 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 6.40   |      | 5.00           | mg/Kg | 1                   | 6/5/2010 03:21 PM |
| Surr: Selenate (surr)          | 97.6   |      | 85-115         | %REC  | 1                   | 6/5/2010 03:21 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-22 5-10'  
**Collection Date:** 5/25/2010 10:30 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-12  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 07:17 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 07:17 PM |
| Surr: 2-Fluorobiphenyl         | 113    |      | 70-130         | %REC  | 1                   | 6/7/2010 07:17 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 09:01 AM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 70-130         | %REC  | 1                   | 6/6/2010 09:01 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 05:03 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 05:03 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 05:03 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 05:03 PM |
| Surr: 4-Bromofluorobenzene     | 106    |      | 75-131         | %REC  | 1                   | 6/5/2010 05:03 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                   | 6/5/2010 05:03 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 9.35   |      | 4.99           | mg/Kg | 1                   | 6/5/2010 03:36 PM |
| Surr: Selenate (surr)          | 97.9   |      | 85-115         | %REC  | 1                   | 6/5/2010 03:36 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-22 20'  
**Collection Date:** 5/25/2010 10:40 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-13  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 07:36 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 07:36 PM |
| Surr: 2-Fluorobiphenyl         | 135    | S    | 70-130         | %REC  | 1                   | 6/7/2010 07:36 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 09:47 AM |
| Surr: 4-Bromofluorobenzene     | 98.1   |      | 70-130         | %REC  | 1                   | 6/6/2010 09:47 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 05:23 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 05:23 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 05:23 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 05:23 PM |
| Surr: 4-Bromofluorobenzene     | 109    |      | 75-131         | %REC  | 1                   | 6/5/2010 05:23 PM |
| Surr: Trifluorotoluene         | 100    |      | 73-130         | %REC  | 1                   | 6/5/2010 05:23 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 88.5   |      | 4.99           | mg/Kg | 1                   | 6/5/2010 02:55 AM |
| Surr: Selenate (surr)          | 97.0   |      | 85-115         | %REC  | 1                   | 6/5/2010 02:55 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-22 30'  
**Collection Date:** 5/25/2010 10:50 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-14  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 11:48 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 11:48 PM |
| Surr: 2-Fluorobiphenyl         | 87.4   |      | 70-130         | %REC  | 1                   | 6/7/2010 11:48 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 10:11 AM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 70-130         | %REC  | 1                   | 6/6/2010 10:11 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 05:43 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 05:43 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 05:43 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 05:43 PM |
| Surr: 4-Bromofluorobenzene     | 109    |      | 75-131         | %REC  | 1                   | 6/5/2010 05:43 PM |
| Surr: Trifluorotoluene         | 104    |      | 73-130         | %REC  | 1                   | 6/5/2010 05:43 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 14.3   |      | 4.99           | mg/Kg | 1                   | 6/5/2010 03:10 AM |
| Surr: Selenate (surr)          | 98.9   |      | 85-115         | %REC  | 1                   | 6/5/2010 03:10 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-22 40'

Lab ID: 1005946-15

Collection Date: 5/25/2010 11:00 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 08:34 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 08:34 PM |
| Surr: 2-Fluorobiphenyl         | 129    |      | 70-130         | %REC  | 1                   | 6/7/2010 08:34 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 10:34 AM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 70-130         | %REC  | 1                   | 6/6/2010 10:34 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 06:03 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 06:03 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 06:03 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 06:03 PM |
| Surr: 4-Bromofluorobenzene     | 109    |      | 75-131         | %REC  | 1                   | 6/5/2010 06:03 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                   | 6/5/2010 06:03 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 5.00           | mg/Kg | 1                   | 6/5/2010 03:24 AM |
| Surr: Selenate (surr)          | 95.6   |      | 85-115         | %REC  | 1                   | 6/5/2010 03:24 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-22 50'  
**Collection Date:** 5/25/2010 11:10 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-16  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 10:50 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 10:50 PM |
| Surr: 2-Fluorobiphenyl         | 120    |      | 70-130         | %REC  | 1                   | 6/7/2010 10:50 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 10:57 AM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 70-130         | %REC  | 1                   | 6/6/2010 10:57 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 06:23 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 06:23 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 06:23 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 06:23 PM |
| Surr: 4-Bromofluorobenzene     | 109    |      | 75-131         | %REC  | 1                   | 6/5/2010 06:23 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                   | 6/5/2010 06:23 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 4.99           | mg/Kg | 1                   | 6/5/2010 03:39 AM |
| Surr: Selenate (surr)          | 98.5   |      | 85-115         | %REC  | 1                   | 6/5/2010 03:39 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-22 60'  
**Collection Date:** 5/25/2010 11:20 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-17  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 10:31 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 10:31 PM |
| Surr: 2-Fluorobiphenyl         | 116    |      | 70-130         | %REC  | 1                   | 6/7/2010 10:31 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 11:20 AM |
| Surr: 4-Bromofluorobenzene     | 100    |      | 70-130         | %REC  | 1                   | 6/6/2010 11:20 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 06:43 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 06:43 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 06:43 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 06:43 PM |
| Surr: 4-Bromofluorobenzene     | 104    |      | 75-131         | %REC  | 1                   | 6/5/2010 06:43 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                   | 6/5/2010 06:43 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 7.20   |      | 5.00           | mg/Kg | 1                   | 6/5/2010 04:23 AM |
| Surr: Selenate (surr)          | 95.6   |      | 85-115         | %REC  | 1                   | 6/5/2010 04:23 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-22 70'  
**Collection Date:** 5/25/2010 11:30 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-18  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 10:12 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 10:12 PM |
| Surr: 2-Fluorobiphenyl         | 129    |      | 70-130         | %REC  | 1                   | 6/7/2010 10:12 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 11:43 AM |
| Surr: 4-Bromofluorobenzene     | 99.0   |      | 70-130         | %REC  | 1                   | 6/6/2010 11:43 AM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 07:23 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 07:23 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 07:23 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 07:23 PM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 75-131         | %REC  | 1                   | 6/5/2010 07:23 PM |
| Surr: Trifluorotoluene         | 98.4   |      | 73-130         | %REC  | 1                   | 6/5/2010 07:23 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 6.75   |      | 5.00           | mg/Kg | 1                   | 6/5/2010 04:37 AM |
| Surr: Selenate (surr)          | 99.6   |      | 85-115         | %REC  | 1                   | 6/5/2010 04:37 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-22 80'  
**Collection Date:** 5/25/2010 11:40 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-19  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 09:52 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 09:52 PM |
| Surr: 2-Fluorobiphenyl         | 121    |      | 70-130         | %REC  | 1                   | 6/7/2010 09:52 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 12:07 PM |
| Surr: 4-Bromofluorobenzene     | 98.9   |      | 70-130         | %REC  | 1                   | 6/6/2010 12:07 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 07:43 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 07:43 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 07:43 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 07:43 PM |
| Surr: 4-Bromofluorobenzene     | 118    |      | 75-131         | %REC  | 1                   | 6/5/2010 07:43 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                   | 6/5/2010 07:43 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 5.00           | mg/Kg | 1                   | 6/5/2010 04:52 AM |
| Surr: Selenate (surr)          | 99.6   |      | 85-115         | %REC  | 1                   | 6/5/2010 04:52 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-22 90'  
**Collection Date:** 5/25/2010 11:50 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-20  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 09:33 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 09:33 PM |
| Surr: 2-Fluorobiphenyl         | 111    |      | 70-130         | %REC  | 1                   | 6/7/2010 09:33 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 12:30 PM |
| Surr: 4-Bromofluorobenzene     | 98.6   |      | 70-130         | %REC  | 1                   | 6/6/2010 12:30 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 08:03 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 08:03 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 08:03 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 08:03 PM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 75-131         | %REC  | 1                   | 6/5/2010 08:03 PM |
| Surr: Trifluorotoluene         | 98.3   |      | 73-130         | %REC  | 1                   | 6/5/2010 08:03 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 13.2   |      | 4.98           | mg/Kg | 1                   | 6/5/2010 05:06 AM |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                   | 6/5/2010 05:06 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-22 95'  
**Collection Date:** 5/25/2010 12:00 PM

**Work Order:** 1005946  
**Lab ID:** 1005946-21  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 11:52 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 11:52 AM |
| Surr: 2-Fluorobiphenyl         | 118    |      | 70-130         | %REC  | 1                   | 6/7/2010 11:52 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 12:53 PM |
| Surr: 4-Bromofluorobenzene     | 95.8   |      | 70-130         | %REC  | 1                   | 6/6/2010 12:53 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 08:23 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 08:23 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 08:23 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 08:23 PM |
| Surr: 4-Bromofluorobenzene     | 84.4   |      | 75-131         | %REC  | 1                   | 6/5/2010 08:23 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                   | 6/5/2010 08:23 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 9.76   |      | 5.00           | mg/Kg | 1                   | 6/6/2010 08:05 AM |
| Surr: Selenate (surr)          | 97.6   |      | 85-115         | %REC  | 1                   | 6/6/2010 08:05 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-23 10'

Collection Date: 5/26/2010 08:20 AM

Work Order: 1005946

Lab ID: 1005946-22

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | 4.2    |      | 1.7            | mg/Kg | 1                   | 6/7/2010 12:12 PM |
| TPH (Motor Oil Range)          | 54     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 12:12 PM |
| Surr: 2-Fluorobiphenyl         | 121    |      | 70-130         | %REC  | 1                   | 6/7/2010 12:12 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 01:16 PM |
| Surr: 4-Bromofluorobenzene     | 100    |      | 70-130         | %REC  | 1                   | 6/6/2010 01:16 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 10:03 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 10:03 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 10:03 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 10:03 PM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 75-131         | %REC  | 1                   | 6/5/2010 10:03 PM |
| Surr: Trifluorotoluene         | 96.6   |      | 73-130         | %REC  | 1                   | 6/5/2010 10:03 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 6.70   |      | 5.00           | mg/Kg | 1                   | 6/6/2010 08:49 AM |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                   | 6/6/2010 08:49 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-23 20'

Lab ID: 1005946-23

Collection Date: 5/26/2010 08:30 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 01:10 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 01:10 PM |
| Surr: 2-Fluorobiphenyl         | 96.2   |      | 70-130         | %REC  | 1                   | 6/7/2010 01:10 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 02:03 PM |
| Surr: 4-Bromofluorobenzene     | 95.1   |      | 70-130         | %REC  | 1                   | 6/6/2010 02:03 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 10:23 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 10:23 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 10:23 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 10:23 PM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 75-131         | %REC  | 1                   | 6/5/2010 10:23 PM |
| Surr: Trifluorotoluene         | 98.7   |      | 73-130         | %REC  | 1                   | 6/5/2010 10:23 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 6.80   |      | 5.00           | mg/Kg | 1                   | 6/6/2010 09:03 AM |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                   | 6/6/2010 09:03 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-23 30'  
**Collection Date:** 5/26/2010 08:40 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-24  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | 2.8    |      | 1.7            | mg/Kg | 1                   | 6/7/2010 01:29 PM |
| TPH (Motor Oil Range)          | 31     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 01:29 PM |
| Surr: 2-Fluorobiphenyl         | 123    |      | 70-130         | %REC  | 1                   | 6/7/2010 01:29 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/6/2010 02:26 PM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 70-130         | %REC  | 1                   | 6/6/2010 02:26 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 10:43 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 10:43 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/5/2010 10:43 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/5/2010 10:43 PM |
| Surr: 4-Bromofluorobenzene     | 106    |      | 75-131         | %REC  | 1                   | 6/5/2010 10:43 PM |
| Surr: Trifluorotoluene         | 99.3   |      | 73-130         | %REC  | 1                   | 6/5/2010 10:43 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 11.9   |      | 4.98           | mg/Kg | 1                   | 6/6/2010 09:18 AM |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                   | 6/6/2010 09:18 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-23 40'  
**Collection Date:** 5/26/2010 08:50 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-25  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor | Date Analyzed                                         |
|--------------------------------|--------|------|--------------|--------------|-----------------|-------------------------------------------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                 |                                                       |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | 1               | Prep Date: 6/1/2010 Analyst: KMB<br>6/7/2010 01:49 PM |
| TPH (Motor Oil Range)          | 11     |      |              | 3.4 mg/Kg    | 1               | 6/7/2010 01:49 PM                                     |
| Surr: 2-Fluorobiphenyl         | 119    |      |              | 70-130 %REC  | 1               | 6/7/2010 01:49 PM                                     |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                 |                                                       |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1               | Analyst: KKP<br>6/6/2010 02:49 PM                     |
| Surr: 4-Bromofluorobenzene     | 103    |      |              | 70-130 %REC  | 1               | 6/6/2010 02:49 PM                                     |
| <b>BTEX</b>                    |        |      |              |              |                 |                                                       |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1               | Analyst: KKP<br>6/7/2010 07:15 PM                     |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1               | 6/7/2010 07:15 PM                                     |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1               | 6/7/2010 07:15 PM                                     |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1               | 6/7/2010 07:15 PM                                     |
| Surr: 4-Bromofluorobenzene     | 93.7   |      |              | 75-131 %REC  | 1               | 6/7/2010 07:15 PM                                     |
| Surr: Trifluorotoluene         | 96.7   |      |              | 73-130 %REC  | 1               | 6/7/2010 07:15 PM                                     |
| <b>ANIONS</b>                  |        |      |              |              |                 |                                                       |
| Chloride                       | 10.3   |      | E300         | 4.98 mg/Kg   | 1               | Prep Date: 6/4/2010 Analyst: IGF<br>6/6/2010 09:32 AM |
| Surr: Selenate (surr)          | 98.8   |      |              | 85-115 %REC  | 1               | 6/6/2010 09:32 AM                                     |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-23 50'  
**Collection Date:** 5/26/2010 09:05 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-26  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor | Date Analyzed                                         |
|--------------------------------|--------|------|--------------|--------------|-----------------|-------------------------------------------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                 |                                                       |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | 1               | Prep Date: 6/1/2010 Analyst: KMB<br>6/7/2010 02:08 PM |
| TPH (Motor Oil Range)          | 6.1    |      | 3.4 mg/Kg    |              | 1               | 6/7/2010 02:08 PM                                     |
| Surr: 2-Fluorobiphenyl         | 116    |      | 70-130 %REC  |              | 1               | 6/7/2010 02:08 PM                                     |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                 |                                                       |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1               | Analyst: KKP<br>6/6/2010 03:12 PM                     |
| Surr: 4-Bromofluorobenzene     | 101    |      | 70-130 %REC  |              | 1               | 6/6/2010 03:12 PM                                     |
| <b>BTEX</b>                    |        |      |              |              |                 |                                                       |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1               | Analyst: KKP<br>6/6/2010 10:09 AM                     |
| Toluene                        | ND     |      | 0.0010 mg/Kg |              | 1               | 6/6/2010 10:09 AM                                     |
| Ethylbenzene                   | ND     |      | 0.0010 mg/Kg |              | 1               | 6/6/2010 10:09 AM                                     |
| Xylenes, Total                 | ND     |      | 0.0030 mg/Kg |              | 1               | 6/6/2010 10:09 AM                                     |
| Surr: 4-Bromofluorobenzene     | 107    |      | 75-131 %REC  |              | 1               | 6/6/2010 10:09 AM                                     |
| Surr: Trifluorotoluene         | 99.5   |      | 73-130 %REC  |              | 1               | 6/6/2010 10:09 AM                                     |
| <b>ANIONS</b>                  |        |      |              |              |                 |                                                       |
| Chloride                       | 10.1   |      | E300         | 4.96 mg/Kg   | 1               | Prep Date: 6/4/2010 Analyst: IGF<br>6/6/2010 09:47 AM |
| Surr: Selenate (surr)          | 99.1   |      | 85-115 %REC  |              | 1               | 6/6/2010 09:47 AM                                     |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-23 60'

Lab ID: 1005946-27

Collection Date: 5/26/2010 09:15 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | 2.0    |      | 1.7            | mg/Kg | 1                   | 6/7/2010 03:06 PM |
| TPH (Motor Oil Range)          | 17     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 03:06 PM |
| Surr: 2-Fluorobiphenyl         | 103    |      | 70-130         | %REC  | 1                   | 6/7/2010 03:06 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/7/2010 10:55 AM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 70-130         | %REC  | 1                   | 6/7/2010 10:55 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 11:09 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 11:09 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 11:09 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 11:09 AM |
| Surr: 4-Bromofluorobenzene     | 113    |      | 75-131         | %REC  | 1                   | 6/6/2010 11:09 AM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                   | 6/6/2010 11:09 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 12.6   |      | 4.98           | mg/Kg | 1                   | 6/6/2010 10:30 AM |
| Surr: Selenate (surr)          | 99.7   |      | 85-115         | %REC  | 1                   | 6/6/2010 10:30 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-23 70'

Lab ID: 1005946-28

Collection Date: 5/26/2010 09:30 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor | Date Analyzed                                         |
|--------------------------------|--------|------|--------------|--------------|-----------------|-------------------------------------------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                 |                                                       |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | 1               | Prep Date: 6/1/2010 Analyst: KMB<br>6/7/2010 03:26 PM |
| TPH (Motor Oil Range)          | 7.3    |      | 3.4 mg/Kg    |              | 1               | 6/7/2010 03:26 PM                                     |
| Surr: 2-Fluorobiphenyl         | 119    |      | 70-130 %REC  |              | 1               | 6/7/2010 03:26 PM                                     |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                 |                                                       |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1               | Analyst: KKP<br>6/7/2010 11:18 AM                     |
| Surr: 4-Bromofluorobenzene     | 104    |      | 70-130 %REC  |              | 1               | 6/7/2010 11:18 AM                                     |
| <b>BTEX</b>                    |        |      |              |              |                 |                                                       |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1               | Analyst: KKP<br>6/6/2010 11:29 AM                     |
| Toluene                        | ND     |      | 0.0010 mg/Kg |              | 1               | 6/6/2010 11:29 AM                                     |
| Ethylbenzene                   | ND     |      | 0.0010 mg/Kg |              | 1               | 6/6/2010 11:29 AM                                     |
| Xylenes, Total                 | ND     |      | 0.0030 mg/Kg |              | 1               | 6/6/2010 11:29 AM                                     |
| Surr: 4-Bromofluorobenzene     | 106    |      | 75-131 %REC  |              | 1               | 6/6/2010 11:29 AM                                     |
| Surr: Trifluorotoluene         | 101    |      | 73-130 %REC  |              | 1               | 6/6/2010 11:29 AM                                     |
| <b>ANIONS</b>                  |        |      |              |              |                 |                                                       |
| Chloride                       | 10.9   |      | E300         | 4.96 mg/Kg   | 1               | Prep Date: 6/4/2010 Analyst: IGF<br>6/6/2010 10:45 AM |
| Surr: Selenate (surr)          | 98.0   |      | 85-115 %REC  |              | 1               | 6/6/2010 10:45 AM                                     |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-23 80'  
**Collection Date:** 5/26/2010 09:45 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-29  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor | Date Analyzed                                         |
|--------------------------------|--------|------|--------------|--------------|-----------------|-------------------------------------------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                 |                                                       |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | 1               | Prep Date: 6/1/2010 Analyst: KMB<br>6/7/2010 03:45 PM |
| TPH (Motor Oil Range)          | 5.4    |      |              | 3.4 mg/Kg    | 1               | 6/7/2010 03:45 PM                                     |
| Surr: 2-Fluorobiphenyl         | 113    |      |              | 70-130 %REC  | 1               | 6/7/2010 03:45 PM                                     |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                 |                                                       |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1               | Analyst: KKP<br>6/7/2010 07:32 PM                     |
| Surr: 4-Bromofluorobenzene     | 103    |      |              | 70-130 %REC  | 1               | 6/7/2010 07:32 PM                                     |
| <b>BTEX</b>                    |        |      |              |              |                 |                                                       |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1               | Analyst: KKP<br>6/6/2010 11:49 AM                     |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1               | 6/6/2010 11:49 AM                                     |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1               | 6/6/2010 11:49 AM                                     |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1               | 6/6/2010 11:49 AM                                     |
| Surr: 4-Bromofluorobenzene     | 109    |      |              | 75-131 %REC  | 1               | 6/6/2010 11:49 AM                                     |
| Surr: Trifluorotoluene         | 103    |      |              | 73-130 %REC  | 1               | 6/6/2010 11:49 AM                                     |
| <b>ANIONS</b>                  |        |      |              |              |                 |                                                       |
| Chloride                       | 13.7   |      | E300         | 4.99 mg/Kg   | 1               | Prep Date: 6/4/2010 Analyst: IGF<br>6/6/2010 11:00 AM |
| Surr: Selenate (surr)          | 99.7   |      |              | 85-115 %REC  | 1               | 6/6/2010 11:00 AM                                     |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-23 90'  
**Collection Date:** 5/26/2010 09:55 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-30  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 05:40 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 05:40 PM |
| Surr: 2-Fluorobiphenyl         | 114    |      | 70-130         | %REC  | 1                   | 6/7/2010 05:40 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/7/2010 12:08 PM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 70-130         | %REC  | 1                   | 6/7/2010 12:08 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 12:09 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 12:09 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 12:09 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 12:09 PM |
| Surr: 4-Bromofluorobenzene     | 112    |      | 75-131         | %REC  | 1                   | 6/6/2010 12:09 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                   | 6/6/2010 12:09 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 9.57   |      | 5.00           | mg/Kg | 1                   | 6/6/2010 11:14 AM |
| Surr: Selenate (surr)          | 98.6   |      | 85-115         | %REC  | 1                   | 6/6/2010 11:14 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-23 95'  
**Collection Date:** 5/26/2010 10:05 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-31  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 05:59 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 05:59 PM |
| Surr: 2-Fluorobiphenyl         | 121    |      | 70-130         | %REC  | 1                   | 6/7/2010 05:59 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/7/2010 12:31 PM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 70-130         | %REC  | 1                   | 6/7/2010 12:31 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 12:29 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 12:29 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 12:29 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 12:29 PM |
| Surr: 4-Bromofluorobenzene     | 106    |      | 75-131         | %REC  | 1                   | 6/6/2010 12:29 PM |
| Surr: Trifluorotoluene         | 100    |      | 73-130         | %REC  | 1                   | 6/6/2010 12:29 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 7.31   |      | 4.99           | mg/Kg | 1                   | 6/6/2010 11:29 AM |
| Surr: Selenate (surr)          | 99.7   |      | 85-115         | %REC  | 1                   | 6/6/2010 11:29 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company  
 Project: Lea Refinery New Wells  
 Sample ID: MW-23 100'  
 Collection Date: 5/26/2010 10:15 AM

Work Order: 1005946  
 Lab ID: 1005946-32  
 Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 06:19 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 06:19 PM |
| Surr: 2-Fluorobiphenyl         | 117    |      | 70-130         | %REC  | 1                   | 6/7/2010 06:19 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/7/2010 12:54 PM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 70-130         | %REC  | 1                   | 6/7/2010 12:54 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 01:30 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 01:30 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 01:30 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 01:30 PM |
| Surr: 4-Bromofluorobenzene     | 107    |      | 75-131         | %REC  | 1                   | 6/6/2010 01:30 PM |
| Surr: Trifluorotoluene         | 99.2   |      | 73-130         | %REC  | 1                   | 6/6/2010 01:30 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 91.9   |      | 4.94           | mg/Kg | 1                   | 6/6/2010 11:43 AM |
| Surr: Selenate (surr)          | 98.9   |      | 85-115         | %REC  | 1                   | 6/6/2010 11:43 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-24 10'

Lab ID: 1005946-33

Collection Date: 5/26/2010 03:05 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 06:38 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 06:38 PM |
| Surr: 2-Fluorobiphenyl         | 107    |      | 70-130         | %REC  | 1                   | 6/7/2010 06:38 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/7/2010 02:27 PM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 70-130         | %REC  | 1                   | 6/7/2010 02:27 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 01:50 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 01:50 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 01:50 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 01:50 PM |
| Surr: 4-Bromofluorobenzene     | 114    |      | 75-131         | %REC  | 1                   | 6/6/2010 01:50 PM |
| Surr: Trifluorotoluene         | 105    |      | 73-130         | %REC  | 1                   | 6/6/2010 01:50 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 17.3   |      | 4.94           | mg/Kg | 1                   | 6/6/2010 11:58 AM |
| Surr: Selenate (surr)          | 100    |      | 85-115         | %REC  | 1                   | 6/6/2010 11:58 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-24 20'

Lab ID: 1005946-34

Collection Date: 5/26/2010 03:20 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 06:57 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 06:57 PM |
| Surr: 2-Fluorobiphenyl         | 109    |      | 70-130         | %REC  | 1                   | 6/7/2010 06:57 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/7/2010 02:51 PM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 70-130         | %REC  | 1                   | 6/7/2010 02:51 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 02:10 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 02:10 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 02:10 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 02:10 PM |
| Surr: 4-Bromofluorobenzene     | 112    |      | 75-131         | %REC  | 1                   | 6/6/2010 02:10 PM |
| Surr: Trifluorotoluene         | 106    |      | 73-130         | %REC  | 1                   | 6/6/2010 02:10 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 9.34   |      | 4.97           | mg/Kg | 1                   | 6/6/2010 12:12 PM |
| Surr: Selenate (surr)          | 97.7   |      | 85-115         | %REC  | 1                   | 6/6/2010 12:12 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-24 30'

Lab ID: 1005946-35

Collection Date: 5/26/2010 03:30 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 07:17 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 07:17 PM |
| Surr: 2-Fluorobiphenyl         | 102    |      | 70-130         | %REC  | 1                   | 6/7/2010 07:17 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/7/2010 03:14 PM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 70-130         | %REC  | 1                   | 6/7/2010 03:14 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 02:30 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 02:30 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 02:30 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 02:30 PM |
| Surr: 4-Bromofluorobenzene     | 111    |      | 75-131         | %REC  | 1                   | 6/6/2010 02:30 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                   | 6/6/2010 02:30 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 5.00           | mg/Kg | 1                   | 6/6/2010 12:27 PM |
| Surr: Selenate (surr)          | 99.4   |      | 85-115         | %REC  | 1                   | 6/6/2010 12:27 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-24 40'  
**Collection Date:** 5/26/2010 03:40 PM

**Work Order:** 1005946  
**Lab ID:** 1005946-36  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 07:36 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 07:36 PM |
| Surr: 2-Fluorobiphenyl         | 103    |      | 70-130         | %REC  | 1                   | 6/7/2010 07:36 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/7/2010 03:38 PM |
| Surr: 4-Bromofluorobenzene     | 99.2   |      | 70-130         | %REC  | 1                   | 6/7/2010 03:38 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 02:50 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 02:50 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 02:50 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 02:50 PM |
| Surr: 4-Bromofluorobenzene     | 108    |      | 75-131         | %REC  | 1                   | 6/6/2010 02:50 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                   | 6/6/2010 02:50 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 6.98   |      | 4.98           | mg/Kg | 1                   | 6/6/2010 12:41 PM |
| Surr: Selenate (surr)          | 99.9   |      | 85-115         | %REC  | 1                   | 6/6/2010 12:41 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-24 50'

Lab ID: 1005946-37

Collection Date: 5/26/2010 03:50 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 10:35 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 10:35 AM |
| Surr: 2-Fluorobiphenyl         | 125    |      | 70-130         | %REC  | 1                   | 6/7/2010 10:35 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/7/2010 04:01 PM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 70-130         | %REC  | 1                   | 6/7/2010 04:01 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 03:10 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 03:10 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 03:10 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 03:10 PM |
| Surr: 4-Bromofluorobenzene     | 108    |      | 75-131         | %REC  | 1                   | 6/6/2010 03:10 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                   | 6/6/2010 03:10 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 8.60   |      | 4.99           | mg/Kg | 1                   | 6/6/2010 01:25 PM |
| Surr: Selenate (surr)          | 99.3   |      | 85-115         | %REC  | 1                   | 6/6/2010 01:25 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-24 60'

Lab ID: 1005946-38

Collection Date: 5/26/2010 04:05 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 10:54 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 10:54 AM |
| Surr: 2-Fluorobiphenyl         | 106    |      | 70-130         | %REC  | 1                   | 6/7/2010 10:54 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/7/2010 04:25 PM |
| Surr: 4-Bromofluorobenzene     | 100    |      | 70-130         | %REC  | 1                   | 6/7/2010 04:25 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 03:30 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 03:30 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 03:30 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 03:30 PM |
| Surr: 4-Bromofluorobenzene     | 111    |      | 75-131         | %REC  | 1                   | 6/6/2010 03:30 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                   | 6/6/2010 03:30 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 6.79   |      | 5.00           | mg/Kg | 1                   | 6/6/2010 01:40 PM |
| Surr: Selenate (surr)          | 98.6   |      | 85-115         | %REC  | 1                   | 6/6/2010 01:40 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-24 70'

Lab ID: 1005946-39

Collection Date: 5/26/2010 04:20 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 11:14 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 11:14 AM |
| Surr: 2-Fluorobiphenyl         | 119    |      | 70-130         | %REC  | 1                   | 6/7/2010 11:14 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/7/2010 04:48 PM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 70-130         | %REC  | 1                   | 6/7/2010 04:48 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 03:50 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 03:50 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 03:50 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 03:50 PM |
| Surr: 4-Bromofluorobenzene     | 111    |      | 75-131         | %REC  | 1                   | 6/6/2010 03:50 PM |
| Surr: Trifluorotoluene         | 104    |      | 73-130         | %REC  | 1                   | 6/6/2010 03:50 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 9.81   |      | 4.99           | mg/Kg | 1                   | 6/6/2010 01:54 PM |
| Surr: Selenate (surr)          | 99.6   |      | 85-115         | %REC  | 1                   | 6/6/2010 01:54 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**Client:** Navajo Refining Company

**Project:** Lea Refinery New Wells

**Work Order:** 1005946

**Sample ID:** MW-24 80'

**Lab ID:** 1005946-40

**Collection Date:** 5/26/2010 04:35 PM

**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/7/2010 11:33 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/7/2010 11:33 AM |
| Surr: 2-Fluorobiphenyl         | 113    |      | 70-130         | %REC  | 1                   | 6/7/2010 11:33 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/7/2010 05:11 PM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 70-130         | %REC  | 1                   | 6/7/2010 05:11 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 04:10 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 04:10 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 04:10 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 04:10 PM |
| Surr: 4-Bromofluorobenzene     | 112    |      | 75-131         | %REC  | 1                   | 6/6/2010 04:10 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                   | 6/6/2010 04:10 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | 5.19   |      | 5.00           | mg/Kg | 1                   | 6/6/2010 02:09 PM |
| Surr: Selenate (surr)          | 98.0   |      | 85-115         | %REC  | 1                   | 6/6/2010 02:09 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: MW-24 90'

Lab ID: 1005946-41

Collection Date: 5/26/2010 04:45 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units        | Dilution Factor | Date Analyzed                                         |
|--------------------------------|--------|------|----------------|--------------|-----------------|-------------------------------------------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |              |                 |                                                       |
| TPH (Diesel Range)             | ND     |      | <b>SW8015M</b> | 1.7 mg/Kg    | 1               | Prep Date: 6/1/2010 Analyst: KMB<br>6/2/2010 01:09 PM |
| TPH (Motor Oil Range)          | ND     |      |                | 3.4 mg/Kg    | 1               | 6/2/2010 01:09 PM                                     |
| Surr: 2-Fluorobiphenyl         | 105    |      | 70-130         | %REC         | 1               | 6/2/2010 01:09 PM                                     |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |              |                 |                                                       |
| Gasoline Range Organics        | ND     |      | <b>SW8015</b>  | 0.050 mg/Kg  | 1               | Analyst: KKP<br>6/7/2010 05:35 PM                     |
| Surr: 4-Bromofluorobenzene     | 101    |      | 70-130         | %REC         | 1               | 6/7/2010 05:35 PM                                     |
| <b>BTEX</b>                    |        |      |                |              |                 |                                                       |
| Benzene                        | ND     |      | <b>SW8021B</b> | 0.0010 mg/Kg | 1               | Analyst: KKP<br>6/6/2010 04:30 PM                     |
| Toluene                        | ND     |      |                | 0.0010 mg/Kg | 1               | 6/6/2010 04:30 PM                                     |
| Ethylbenzene                   | ND     |      |                | 0.0010 mg/Kg | 1               | 6/6/2010 04:30 PM                                     |
| Xylenes, Total                 | ND     |      |                | 0.0030 mg/Kg | 1               | 6/6/2010 04:30 PM                                     |
| Surr: 4-Bromofluorobenzene     | 111    |      | 75-131         | %REC         | 1               | 6/6/2010 04:30 PM                                     |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC         | 1               | 6/6/2010 04:30 PM                                     |
| <b>ANIONS</b>                  |        |      |                |              |                 |                                                       |
| Chloride                       | ND     |      | <b>E300</b>    | 5.00 mg/Kg   | 1               | Prep Date: 6/4/2010 Analyst: IGF<br>6/7/2010 07:37 PM |
| Surr: Selenate (surr)          | 97.2   |      | 85-115         | %REC         | 1               | 6/7/2010 07:37 PM                                     |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-24 95'  
**Collection Date:** 5/26/2010 04:50 PM

**Work Order:** 1005946  
**Lab ID:** 1005946-42  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/2/2010 12:11 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/2/2010 12:11 PM |
| Surr: 2-Fluorobiphenyl         | 101    |      | 70-130         | %REC  | 1                   | 6/2/2010 12:11 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/7/2010 05:58 PM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 70-130         | %REC  | 1                   | 6/7/2010 05:58 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 05:30 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 05:30 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 05:30 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 05:30 PM |
| Surr: 4-Bromofluorobenzene     | 107    |      | 75-131         | %REC  | 1                   | 6/6/2010 05:30 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                   | 6/6/2010 05:30 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 4.99           | mg/Kg | 1                   | 6/7/2010 08:20 PM |
| Surr: Selenate (surr)          | 99.5   |      | 85-115         | %REC  | 1                   | 6/7/2010 08:20 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-24 100'  
**Collection Date:** 5/26/2010 05:00 PM

**Work Order:** 1005946  
**Lab ID:** 1005946-43  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/2/2010 11:52 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/2/2010 11:52 AM |
| Surr: 2-Fluorobiphenyl         | 113    |      | 70-130         | %REC  | 1                   | 6/2/2010 11:52 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/7/2010 06:45 PM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 70-130         | %REC  | 1                   | 6/7/2010 06:45 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 05:50 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 05:50 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 05:50 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 05:50 PM |
| Surr: 4-Bromofluorobenzene     | 106    |      | 75-131         | %REC  | 1                   | 6/6/2010 05:50 PM |
| Surr: Trifluorotoluene         | 99.8   |      | 73-130         | %REC  | 1                   | 6/6/2010 05:50 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 5.00           | mg/Kg | 1                   | 6/7/2010 08:35 PM |
| Surr: Selenate (surr)          | 97.9   |      | 85-115         | %REC  | 1                   | 6/7/2010 08:35 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-24 105'  
**Collection Date:** 5/26/2010 05:15 PM

**Work Order:** 1005946  
**Lab ID:** 1005946-44  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed     |
|--------------------------------|--------|------|----------------|-------|---------------------|-------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/1/2010 | Analyst: KMB      |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/2/2010 11:32 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/2/2010 11:32 AM |
| Surr: 2-Fluorobiphenyl         | 108    |      | 70-130         | %REC  | 1                   | 6/2/2010 11:32 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP      |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/8/2010 10:30 PM |
| Surr: 4-Bromofluorobenzene     | 79.8   |      | 70-130         | %REC  | 1                   | 6/8/2010 10:30 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                   |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP      |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 06:10 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 06:10 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/6/2010 06:10 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/6/2010 06:10 PM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 75-131         | %REC  | 1                   | 6/6/2010 06:10 PM |
| Surr: Trifluorotoluene         | 97.6   |      | 73-130         | %REC  | 1                   | 6/6/2010 06:10 PM |
| <b>ANIONS</b>                  |        |      |                |       |                     |                   |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/4/2010 | Analyst: IGF      |
| Chloride                       | ND     |      | 5.00           | mg/Kg | 1                   | 6/7/2010 08:49 PM |
| Surr: Selenate (surr)          | 97.4   |      | 85-115         | %REC  | 1                   | 6/7/2010 08:49 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: Trip Blank 051710-90

Lab ID: 1005946-45

Collection Date: 5/26/2010

Matrix: WATER

| Analyses                   | Result | Qual | Report Limit   | Units | Dilution Factor | Date Analyzed       |
|----------------------------|--------|------|----------------|-------|-----------------|---------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b> |       |                 | Analyst: <b>KKP</b> |
| Benzene                    | ND     |      | 0.0010         | mg/L  | 1               | 5/29/2010 03:10 AM  |
| Toluene                    | ND     |      | 0.0010         | mg/L  | 1               | 5/29/2010 03:10 AM  |
| Ethylbenzene               | ND     |      | 0.0010         | mg/L  | 1               | 5/29/2010 03:10 AM  |
| Xylenes, Total             | ND     |      | 0.0030         | mg/L  | 1               | 5/29/2010 03:10 AM  |
| Surr: 4-Bromofluorobenzene | 99.0   |      | 77-129         | %REC  | 1               | 5/29/2010 03:10 AM  |
| Surr: Trifluorotoluene     | 97.3   |      | 75-130         | %REC  | 1               | 5/29/2010 03:10 AM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 15-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1005946

Sample ID: Trip Blank 051710-08

Lab ID: 1005946-46

Collection Date: 5/26/2010

Matrix: WATER

| Analyses                   | Result | Qual | Report<br>Limit | Units | Dilution<br>Factor | Date Analyzed      |
|----------------------------|--------|------|-----------------|-------|--------------------|--------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b>  |       |                    | Analyst: KKP       |
| Benzene                    | ND     |      | 0.0010          | mg/L  | 1                  | 5/29/2010 03:27 AM |
| Toluene                    | ND     |      | 0.0010          | mg/L  | 1                  | 5/29/2010 03:27 AM |
| Ethylbenzene               | ND     |      | 0.0010          | mg/L  | 1                  | 5/29/2010 03:27 AM |
| Xylenes, Total             | ND     |      | 0.0030          | mg/L  | 1                  | 5/29/2010 03:27 AM |
| Surr: 4-Bromofluorobenzene | 97.3   |      | 77-129          | %REC  | 1                  | 5/29/2010 03:27 AM |
| Surr: Trifluorotoluene     | 97.9   |      | 75-130          | %REC  | 1                  | 5/29/2010 03:27 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-16 15'  
**Collection Date:** 5/24/2010 10:00 AM

**Work Order:** 1005946  
**Lab ID:** 1005946-47  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor | Date Analyzed                                          |
|--------------------------------|--------|------|--------------|--------------|-----------------|--------------------------------------------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                 |                                                        |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | 1               | Prep Date: 6/1/2010 Analyst: KMB<br>6/14/2010 05:28 PM |
| TPH (Motor Oil Range)          | 26     |      |              | 3.4 mg/Kg    | 1               | 6/14/2010 05:28 PM                                     |
| Surr: 2-Fluorobiphenyl         | 106    |      |              | 70-130 %REC  | 1               | 6/14/2010 05:28 PM                                     |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                 |                                                        |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1               | Analyst: KKP<br>6/6/2010 02:25 AM                      |
| Surr: 4-Bromofluorobenzene     | 98.3   |      |              | 70-130 %REC  | 1               | 6/6/2010 02:25 AM                                      |
| <b>BTEX</b>                    |        |      |              |              |                 |                                                        |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1               | Analyst: KKP<br>6/2/2010 03:46 AM                      |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1               | 6/2/2010 03:46 AM                                      |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1               | 6/2/2010 03:46 AM                                      |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1               | 6/2/2010 03:46 AM                                      |
| Surr: 4-Bromofluorobenzene     | 85.0   |      |              | 75-131 %REC  | 1               | 6/2/2010 03:46 AM                                      |
| Surr: Trifluorotoluene         | 98.8   |      |              | 73-130 %REC  | 1               | 6/2/2010 03:46 AM                                      |
| <b>ANIONS</b>                  |        |      |              |              |                 |                                                        |
| Chloride                       | 30.6   |      | E300         | 4.99 mg/Kg   | 1               | Prep Date: 6/4/2010 Analyst: IGF<br>6/7/2010 09:04 PM  |
| Surr: Selenate (surr)          | 98.2   |      |              | 85-115 %REC  | 1               | 6/7/2010 09:04 PM                                      |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 15-Jun-10

**Client:** Navajo Refining Company  
**Work Order:** 1005946  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: 43339 Instrument ID FID-8 Method: SW8015M

**MBLK** Sample ID: FBLKS1-1000601-43339 Units: mg/Kg Analysis Date: 6/12/2010 03:14 PM

Client ID: Run ID: FID-8\_100601A SeqNo: 1993872 Prep Date: 6/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 2.917  | 0.10 | 3.33    | 0             | 87.6 | 70-130        | 0             |      |           |      |

**LCS** Sample ID: FLCSS1-100601-43339 Units: mg/Kg Analysis Date: 6/12/2010 03:33 PM

Client ID: Run ID: FID-8\_100601A SeqNo: 1993874 Prep Date: 6/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 31.19  | 1.7  | 33.33   | 0             | 93.6 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 35.67  | 3.4  | 33.33   | 0             | 107  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.86   | 0.10 | 3.33    | 0             | 116  | 70-130        | 0             |      |           |      |

**MS** Sample ID: 1005946-02BMS Units: mg/Kg Analysis Date: 6/7/2010 01:10 PM

Client ID: MW-16 20' Run ID: FID-8\_100601A SeqNo: 1993678 Prep Date: 6/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 28.59  | 1.7  | 33.3    | 0.2454        | 85.1 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 29.15  | 3.4  | 33.3    | 0.2771        | 86.7 | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.17   | 0.10 | 3.327   | 0             | 125  | 70-130        | 0             |      |           |      |

**MSD** Sample ID: 1005946-02BMSD Units: mg/Kg Analysis Date: 6/7/2010 01:29 PM

Client ID: MW-16 20' Run ID: FID-8\_100601A SeqNo: 1993679 Prep Date: 6/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD   | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|--------|-----------|------|
| TPH (Diesel Range)     | 31.12  | 1.7  | 33.25   | 0.2454        | 92.8 | 70-130        | 28.59         | 8.48   | 30        |      |
| TPH (Motor Oil Range)  | 31.97  | 3.4  | 33.25   | 0.2771        | 95.3 | 70-130        | 29.15         | 9.23   | 30        |      |
| Surr: 2-Fluorobiphenyl | 4.167  | 0.10 | 3.322   | 0             | 125  | 70-130        | 4.17          | 0.0628 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005946-01B | 1005946-02B | 1005946-03B |
| 1005946-04B | 1005946-05B | 1005946-06B |
| 1005946-07B | 1005946-08B | 1005946-09B |
| 1005946-10B | 1005946-11B | 1005946-12B |
| 1005946-13B | 1005946-14B | 1005946-15B |
| 1005946-16B | 1005946-17B | 1005946-18B |
| 1005946-19B | 1005946-20B |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
Work Order: 1005946  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: 43342 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS2-100601-43342 Units: mg/Kg Analysis Date: 6/7/2010 11:14 AM

Client ID: Run ID: FID-7\_100601C SeqNo: 1993595 Prep Date: 6/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.191  | 0.10 | 3.33    | 0             | 126  | 70-130        | 0             |      |           |      |

LCS Sample ID: FLCSS2100601-43342 Units: mg/Kg Analysis Date: 6/7/2010 11:33 AM

Client ID: Run ID: FID-7\_100601C SeqNo: 1993615 Prep Date: 6/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 27.64  | 1.7  | 33.33   | 0             | 82.9 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 30.12  | 3.4  | 33.33   | 0             | 90.4 | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.289  | 0.10 | 3.33    | 0             | 129  | 70-130        | 0             |      |           |      |

MS Sample ID: 1005946-22BMS Units: mg/Kg Analysis Date: 6/7/2010 12:31 PM

Client ID: MW-23 10' Run ID: FID-7\_100601C SeqNo: 1993599 Prep Date: 6/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 38.69  | 1.7  | 33.25   | 4.152         | 104  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 78.04  | 3.4  | 33.25   | 54.34         | 71.3 | 70-130        | 0             |      |           | E    |
| Surr: 2-Fluorobiphenyl | 4.201  | 0.10 | 3.322   | 0             | 126  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005946-22BMSD Units: mg/Kg Analysis Date: 6/7/2010 12:51 PM

Client ID: MW-23 10' Run ID: FID-7\_100601C SeqNo: 1993600 Prep Date: 6/1/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 34.1   | 1.7  | 33.31   | 4.152         | 89.9 | 70-130        | 38.69         | 12.6 | 30        |      |
| TPH (Motor Oil Range)  | 87.53  | 3.4  | 33.31   | 54.34         | 99.6 | 70-130        | 78.04         | 11.5 | 30        | E    |
| Surr: 2-Fluorobiphenyl | 4.089  | 0.10 | 3.328   | 0             | 123  | 70-130        | 4.201         | 2.71 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005946-21B | 1005946-22B | 1005946-23B |
| 1005946-24B | 1005946-25B | 1005946-26B |
| 1005946-27B | 1005946-28B | 1005946-29B |
| 1005946-30B | 1005946-31B | 1005946-32B |
| 1005946-33B | 1005946-34B | 1005946-35B |
| 1005946-36B | 1005946-37B | 1005946-38B |
| 1005946-39B | 1005946-40B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005946  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: 43343 Instrument ID FID-7 Method: SW8015M

| <b>MBLK</b>            |        | Sample ID: FBLKS3-100601-43343 |         |               |      | Units: mg/Kg   |               | Analysis Date: 6/12/2010 02:55 PM |           |       |
|------------------------|--------|--------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:             |        | Run ID: FID-7_100601B          |         |               |      | SeqNo: 1993581 |               | Prep Date: 6/1/2010               |           | DF: 1 |
| Analyte                | Result | PQL                            | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| TPH (Diesel Range)     | ND     | 1.7                            |         |               |      |                |               |                                   |           |       |
| TPH (Motor Oil Range)  | ND     | 3.4                            |         |               |      |                |               |                                   |           |       |
| Surr: 2-Fluorobiphenyl | 2.679  | 0.10                           | 3.33    | 0             | 80.5 | 70-130         | 0             |                                   |           |       |

| <b>LCS</b>             |        | Sample ID: FLCSS3-100601-43343 |         |               |      | Units: mg/Kg   |               | Analysis Date: 6/12/2010 03:14 PM |           |       |
|------------------------|--------|--------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| Client ID:             |        | Run ID: FID-7_100601B          |         |               |      | SeqNo: 1993583 |               | Prep Date: 6/1/2010               |           | DF: 1 |
| Analyte                | Result | PQL                            | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| TPH (Diesel Range)     | 27.16  | 1.7                            | 33.33   | 0             | 81.5 | 70-130         | 0             |                                   |           |       |
| TPH (Motor Oil Range)  | 31.68  | 3.4                            | 33.33   | 0             | 95.1 | 70-130         | 0             |                                   |           |       |
| Surr: 2-Fluorobiphenyl | 3.084  | 0.10                           | 3.33    | 0             | 92.6 | 70-130         | 0             |                                   |           |       |

| <b>MS</b>              |        | Sample ID: 1005946-41BMS |         |               |      | Units: mg/Kg   |               | Analysis Date: 6/2/2010 12:50 PM |           |       |
|------------------------|--------|--------------------------|---------|---------------|------|----------------|---------------|----------------------------------|-----------|-------|
| Client ID: MW-24 90'   |        | Run ID: FID-7_100601B    |         |               |      | SeqNo: 1992225 |               | Prep Date: 6/1/2010              |           | DF: 1 |
| Analyte                | Result | PQL                      | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                             | RPD Limit | Qual  |
| TPH (Diesel Range)     | 31.8   | 1.7                      | 33.23   | 0             | 95.7 | 70-130         | 0             |                                  |           |       |
| TPH (Motor Oil Range)  | 41.9   | 3.4                      | 33.23   | 0.6938        | 124  | 70-130         | 0             |                                  |           |       |
| Surr: 2-Fluorobiphenyl | 4.13   | 0.10                     | 3.32    | 0             | 124  | 70-130         | 0             |                                  |           |       |

| <b>MSD</b>             |        | Sample ID: 1005946-41BMSD |         |               |      | Units: mg/Kg   |               | Analysis Date: 6/2/2010 12:30 PM |           |       |
|------------------------|--------|---------------------------|---------|---------------|------|----------------|---------------|----------------------------------|-----------|-------|
| Client ID: MW-24 90'   |        | Run ID: FID-7_100601B     |         |               |      | SeqNo: 1992224 |               | Prep Date: 6/1/2010              |           | DF: 1 |
| Analyte                | Result | PQL                       | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                             | RPD Limit | Qual  |
| TPH (Diesel Range)     | 29.7   | 1.7                       | 33.27   | 0             | 89.3 | 70-130         | 31.8          | 6.81                             | 30        |       |
| TPH (Motor Oil Range)  | 42.42  | 3.4                       | 33.27   | 0.6938        | 125  | 70-130         | 41.9          | 1.24                             | 30        |       |
| Surr: 2-Fluorobiphenyl | 4.107  | 0.10                      | 3.324   | 0             | 124  | 70-130         | 4.13          | 0.563                            | 30        |       |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005946-41B | 1005946-42B | 1005946-43B |
| 1005946-44B | 1005946-47B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005946  
 Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R91770 Instrument ID BTEX1 Method: SW8021B

MBLK Sample ID: MEOHW2-052810-R91770 Units: µg/L Analysis Date: 5/28/2010 11:44 PM

Client ID: Run ID: BTEX1\_100528B SeqNo: 1977804 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.37  | 1.0 | 30      | 0             | 97.9 | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 28.97  | 1.0 | 30      | 0             | 96.6 | 75-130        | 0             |      |           |      |

MBLK Sample ID: BBLKW2-052810-R91770 Units: µg/L Analysis Date: 5/29/2010 12:01 AM

Client ID: Run ID: BTEX1\_100528B SeqNo: 1977805 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.4   | 1.0 | 30      | 0             | 98   | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 29.5   | 1.0 | 30      | 0             | 98.3 | 75-130        | 0             |      |           |      |

LCS Sample ID: BLCSW2-052810-R91770 Units: µg/L Analysis Date: 5/28/2010 11:27 PM

Client ID: Run ID: BTEX1\_100528B SeqNo: 1977803 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.11  | 1.0 | 20      | 0             | 95.6 | 77-126        | 0             |      |           |      |
| Toluene                    | 18.8   | 1.0 | 20      | 0             | 94   | 80-124        | 0             |      |           |      |
| Ethylbenzene               | 18.8   | 1.0 | 20      | 0             | 94   | 76-125        | 0             |      |           |      |
| Xylenes, Total             | 56.31  | 3.0 | 60      | 0             | 93.8 | 79-124        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.59  | 1.0 | 30      | 0             | 102  | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.03  | 1.0 | 30      | 0             | 103  | 75-130        | 0             |      |           |      |

MS Sample ID: 1005877-12AMS Units: µg/L Analysis Date: 5/29/2010 01:42 AM

Client ID: Run ID: BTEX1\_100528B SeqNo: 1977810 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 23.35  | 1.0 | 20      | 0             | 117  | 77-126        | 0             |      |           |      |
| Toluene                    | 22.01  | 1.0 | 20      | 0             | 110  | 80-124        | 0             |      |           |      |
| Ethylbenzene               | 21.18  | 1.0 | 20      | 0             | 106  | 76-125        | 0             |      |           |      |
| Xylenes, Total             | 63.18  | 3.0 | 60      | 0             | 105  | 79-124        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.59  | 1.0 | 30      | 0             | 102  | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 32.5   | 1.0 | 30      | 0             | 108  | 75-130        | 0             |      |           |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1005946  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **R91770** Instrument ID **BTEX1** Method: **SW8021B**

**MSD** Sample ID: **1005877-12AMSD** Units: **µg/L** Analysis Date: **5/29/2010 01:59 AM**

Client ID: Run ID: **BTEX1\_100528B** SeqNo: **1977811** Prep Date: DF: **1**

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 23.79  | 1.0 | 20      | 0             | 119  | 77-126        | 23.35         | 1.85  | 20        |      |
| Toluene                    | 22.33  | 1.0 | 20      | 0             | 112  | 80-124        | 22.01         | 1.46  | 20        |      |
| Ethylbenzene               | 21.43  | 1.0 | 20      | 0             | 107  | 76-125        | 21.18         | 1.14  | 20        |      |
| Xylenes, Total             | 64.03  | 3.0 | 60      | 0             | 107  | 79-124        | 63.18         | 1.33  | 20        |      |
| Surr: 4-Bromofluorobenzene | 30.23  | 1.0 | 30      | 0             | 101  | 77-129        | 30.59         | 1.19  | 20        |      |
| Surr: Trifluorotoluene     | 32.22  | 1.0 | 30      | 0             | 107  | 75-130        | 32.5          | 0.857 | 20        |      |

The following samples were analyzed in this batch:

1005946-45A 1005946-46A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005946  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R91894 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-060110-R91894 Units: µg/Kg Analysis Date: 6/1/2010 12:09 PM

Client ID: Run ID: BTEX3\_100601A SeqNo: 1980785 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 26.5   | 1.0 | 30      | 0             | 88.3 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.85  | 1.0 | 30      | 0             | 103  | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-060110-R91894 Units: µg/Kg Analysis Date: 6/1/2010 11:31 AM

Client ID: Run ID: BTEX3\_100601A SeqNo: 1980782 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.05  | 1.0 | 20      | 0             | 100  | 74-129        | 0             |      |           |      |
| Toluene                    | 19.97  | 1.0 | 20      | 0             | 99.8 | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 20.77  | 1.0 | 20      | 0             | 104  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 61.23  | 3.0 | 60      | 0             | 102  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 26.79  | 1.0 | 30      | 0             | 89.3 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.51  | 1.0 | 30      | 0             | 102  | 73-130        | 0             |      |           |      |

MS Sample ID: 1005956-04AMS Units: µg/Kg Analysis Date: 6/1/2010 09:06 PM

Client ID: Run ID: BTEX3\_100601A SeqNo: 1980798 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.84  | 1.0 | 20      | 0             | 99.2 | 74-129        | 0             |      |           |      |
| Toluene                    | 19.71  | 1.0 | 20      | 0             | 98.6 | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 20.44  | 1.0 | 20      | 0             | 102  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 60.36  | 3.0 | 60      | 0             | 101  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 26.93  | 1.0 | 30      | 0             | 89.8 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.78  | 1.0 | 30      | 0             | 103  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1005956-04AMSD Units: µg/Kg Analysis Date: 6/1/2010 09:26 PM

Client ID: Run ID: BTEX3\_100601A SeqNo: 1980800 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD   | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|--------|-----------|------|
| Benzene                    | 19.97  | 1.0 | 20      | 0             | 99.9 | 74-129        | 19.84         | 0.69   | 30        |      |
| Toluene                    | 19.81  | 1.0 | 20      | 0             | 99.1 | 75-128        | 19.71         | 0.491  | 30        |      |
| Ethylbenzene               | 20.52  | 1.0 | 20      | 0             | 103  | 73-127        | 20.44         | 0.423  | 30        |      |
| Xylenes, Total             | 60.68  | 3.0 | 60      | 0             | 101  | 74-127        | 60.36         | 0.522  | 30        |      |
| Surr: 4-Bromofluorobenzene | 26.92  | 1.0 | 30      | 0             | 89.7 | 75-131        | 26.93         | 0.0611 | 30        |      |
| Surr: Trifluorotoluene     | 30.85  | 1.0 | 30      | 0             | 103  | 73-130        | 30.78         | 0.219  | 30        |      |

The following samples were analyzed in this batch: 1005946-01A 1005946-47A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1005946  
Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R92042 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-060510-R92042 Units: mg/Kg Analysis Date: 6/5/2010 06:54 PM

Client ID: Run ID: FID-9\_100605B SeqNo: 1984284 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND      | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.09717 | 0.0050 | 0.1     | 0             | 97.2 | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-060510-R92042 Units: mg/Kg Analysis Date: 6/5/2010 06:31 PM

Client ID: Run ID: FID-9\_100605B SeqNo: 1984281 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.053   | 0.050  | 1       | 0             | 105  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.07974 | 0.0050 | 0.1     | 0             | 79.7 | 70-130        | 0             |      |           |      |

MS Sample ID: 1005831-16BMS Units: mg/Kg Analysis Date: 6/5/2010 07:50 PM

Client ID: Run ID: FID-9\_100605B SeqNo: 1984291 Prep Date: DF: 0.796

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 0.8213  | 0.040  | 0.796   | 0             | 103  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.07837 | 0.0040 | 0.0796  | 0             | 98.5 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005831-16BMSD Units: mg/Kg Analysis Date: 6/5/2010 08:13 PM

Client ID: Run ID: FID-9\_100605B SeqNo: 1984295 Prep Date: DF: 0.864

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 0.8016  | 0.043  | 0.864   | 0             | 92.8 | 70-130        | 0.8213        | 2.43 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.08919 | 0.0043 | 0.0864  | 0             | 103  | 70-130        | 0.07837       | 12.9 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005946-01B | 1005946-02B | 1005946-03B |
| 1005946-04B | 1005946-05B | 1005946-06B |
| 1005946-47B |             |             |

Client: Navajo Refining Company

Work Order: 1005946

Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R92045

Instrument ID FID-9

Method: SW8015

MBLK Sample ID: GBLKS-060610-R92045

Units: mg/Kg

Analysis Date: 6/6/2010 05:55 AM

Client ID:

Run ID: FID-9\_100605C

SeqNo: 1984404

Prep Date:

DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND      | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.09984 | 0.0050 | 0.1     | 0             | 99.8 | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-060610-R92045

Units: mg/Kg

Analysis Date: 6/6/2010 05:32 AM

Client ID:

Run ID: FID-9\_100605C

SeqNo: 1984403

Prep Date:

DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.094  | 0.050  | 1       | 0             | 109  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1032 | 0.0050 | 0.1     | 0             | 103  | 70-130        | 0             |      |           |      |

MS Sample ID: 1005946-07BMS

Units: mg/Kg

Analysis Date: 6/6/2010 06:42 AM

Client ID: MW-16 70'

Run ID: FID-9\_100605C

SeqNo: 1984406

Prep Date:

DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.102  | 0.050  | 1       | 0             | 110  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1034 | 0.0050 | 0.1     | 0             | 103  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005946-07BMSD

Units: mg/Kg

Analysis Date: 6/6/2010 07:05 AM

Client ID: MW-16 70'

Run ID: FID-9\_100605C

SeqNo: 1984407

Prep Date:

DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Gasoline Range Organics    | 1.106  | 0.050  | 1       | 0             | 111  | 70-130        | 1.102         | 0.305 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.1022 | 0.0050 | 0.1     | 0             | 102  | 70-130        | 0.1034        | 1.15  | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005946-07B | 1005946-08B | 1005946-09B |
| 1005946-10B | 1005946-11B | 1005946-12B |
| 1005946-13B | 1005946-14B | 1005946-15B |
| 1005946-16B | 1005946-17B | 1005946-18B |
| 1005946-19B | 1005946-20B | 1005946-21B |
| 1005946-22B | 1005946-23B | 1005946-24B |
| 1005946-25B | 1005946-26B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005946  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R92079 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-060510-R92079 Units: µg/Kg Analysis Date: 6/5/2010 12:06 PM

Client ID: Run ID: BTEX3\_100605A SeqNo: 1985132 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.96  | 1.0 | 30      | 0             | 103  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 29.91  | 1.0 | 30      | 0             | 99.7 | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-060510-R92079 Units: µg/Kg Analysis Date: 6/5/2010 11:08 AM

Client ID: Run ID: BTEX3\_100605A SeqNo: 1985131 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.79  | 1.0 | 20      | 0             | 99   | 74-129        | 0             |      |           |      |
| Toluene                    | 19.86  | 1.0 | 20      | 0             | 99.3 | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 20.12  | 1.0 | 20      | 0             | 101  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 61.13  | 3.0 | 60      | 0             | 102  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.29  | 1.0 | 30      | 0             | 108  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.31  | 1.0 | 30      | 0             | 101  | 73-130        | 0             |      |           |      |

MS Sample ID: 1005946-05AMS Units: µg/Kg Analysis Date: 6/5/2010 01:54 PM

Client ID: MW-16 50' Run ID: BTEX3\_100605A SeqNo: 1985137 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.51  | 1.0 | 20      | 0             | 103  | 74-129        | 0             |      |           |      |
| Toluene                    | 20.2   | 1.0 | 20      | 0             | 101  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 20.47  | 1.0 | 20      | 0             | 102  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 62.69  | 3.0 | 60      | 0             | 104  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.82  | 1.0 | 30      | 0             | 109  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.43  | 1.0 | 30      | 0             | 105  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1005946-05AMSD Units: µg/Kg Analysis Date: 6/5/2010 02:14 PM

Client ID: MW-16 50' Run ID: BTEX3\_100605A SeqNo: 1985138 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.89  | 1.0 | 20      | 0             | 104  | 74-129        | 20.51         | 1.81 | 30        |      |
| Toluene                    | 20.92  | 1.0 | 20      | 0             | 105  | 75-128        | 20.2          | 3.52 | 30        |      |
| Ethylbenzene               | 21.35  | 1.0 | 20      | 0             | 107  | 73-127        | 20.47         | 4.22 | 30        |      |
| Xylenes, Total             | 64.83  | 3.0 | 60      | 0             | 108  | 74-127        | 62.69         | 3.35 | 30        |      |
| Surr: 4-Bromofluorobenzene | 33.39  | 1.0 | 30      | 0             | 111  | 75-131        | 32.82         | 1.71 | 30        |      |
| Surr: Trifluorotoluene     | 30.28  | 1.0 | 30      | 0             | 101  | 73-130        | 31.43         | 3.73 | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Navajo Refining Company  
**Work Order:** 1005946  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **R92079**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005946-02A | 1005946-03A | 1005946-04A |
| 1005946-05A | 1005946-06A | 1005946-07A |
| 1005946-08A | 1005946-09A | 1005946-10A |
| 1005946-11A | 1005946-12A | 1005946-13A |
| 1005946-14A | 1005946-15A | 1005946-16A |
| 1005946-17A | 1005946-18A | 1005946-19A |
| 1005946-20A | 1005946-21A |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005946  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: **R92083** Instrument ID **BTEX3** Method: **SW8021B**

**MBLK** Sample ID: **BBLKS2-060510-R92083** Units: **µg/Kg** Analysis Date: **6/5/2010 09:43 PM**

Client ID: Run ID: **BTEX3\_100605B** SeqNo: **1985223** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 31.47  | 1.0 | 30      | 0             | 105  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 29.53  | 1.0 | 30      | 0             | 98.4 | 73-130        | 0             |      |           |      |

**LCS** Sample ID: **BLCSS2-060510-R92083** Units: **µg/Kg** Analysis Date: **6/5/2010 09:03 PM**

Client ID: Run ID: **BTEX3\_100605B** SeqNo: **1985216** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.14  | 1.0 | 20      | 0             | 101  | 74-129        | 0             |      |           |      |
| Toluene                    | 20.36  | 1.0 | 20      | 0             | 102  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 20.37  | 1.0 | 20      | 0             | 102  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 61.66  | 3.0 | 60      | 0             | 103  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.18  | 1.0 | 30      | 0             | 107  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.35  | 1.0 | 30      | 0             | 101  | 73-130        | 0             |      |           |      |

**LCSD** Sample ID: **BLCSS2-060510-R92083** Units: **µg/Kg** Analysis Date: **6/6/2010 04:03 AM**

Client ID: Run ID: **BTEX3\_100605B** SeqNo: **1985472** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 19.7   | 1.0 | 20      | 0             | 98.5 | 74-129        | 20.14         | 2.21  | 30        |      |
| Toluene                    | 20.02  | 1.0 | 20      | 0             | 100  | 75-128        | 20.36         | 1.7   | 30        |      |
| Ethylbenzene               | 19.88  | 1.0 | 20      | 0             | 99.4 | 73-127        | 20.37         | 2.4   | 30        |      |
| Xylenes, Total             | 60.2   | 3.0 | 60      | 0             | 100  | 74-127        | 61.66         | 2.4   | 30        |      |
| Surr: 4-Bromofluorobenzene | 31.92  | 1.0 | 30      | 0             | 106  | 75-131        | 32.18         | 0.823 | 30        |      |
| Surr: Trifluorotoluene     | 30.19  | 1.0 | 30      | 0             | 101  | 73-130        | 30.35         | 0.533 | 30        |      |

**MS** Sample ID: **1005946-25AMS** Units: **µg/Kg** Analysis Date: **6/5/2010 11:23 PM**

Client ID: **MW-23 40'** Run ID: **BTEX3\_100605B** SeqNo: **1985232** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.86  | 1.0 | 20      | 0             | 99.3 | 74-129        | 0             |      |           |      |
| Toluene                    | 19.96  | 1.0 | 20      | 0             | 99.8 | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 20.06  | 1.0 | 20      | 0             | 100  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 60.32  | 3.0 | 60      | 0             | 101  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 31.91  | 1.0 | 30      | 0             | 106  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.21  | 1.0 | 30      | 0             | 101  | 73-130        | 0             |      |           |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company

Work Order: 1005946

Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R92083

Instrument ID BTEX3

Method: SW8021B

MSD Sample ID: 1005946-25AMSD Units: µg/Kg Analysis Date: 6/5/2010 11:43 PM

Client ID: MW-23 40'

Run ID: BTEX3\_100605B

SeqNo: 1985236

Prep Date:

DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 19.71  | 1.0 | 20      | 0             | 98.5 | 74-129        | 19.86         | 0.775 | 30        |      |
| Toluene                    | 20.27  | 1.0 | 20      | 0             | 101  | 75-128        | 19.96         | 1.54  | 30        |      |
| Ethylbenzene               | 20.25  | 1.0 | 20      | 0             | 101  | 73-127        | 20.06         | 0.927 | 30        |      |
| Xylenes, Total             | 61.01  | 3.0 | 60      | 0             | 102  | 74-127        | 60.32         | 1.14  | 30        |      |
| Surr: 4-Bromofluorobenzene | 32.33  | 1.0 | 30      | 0             | 108  | 75-131        | 31.91         | 1.32  | 30        |      |
| Surr: Trifluorotoluene     | 30.62  | 1.0 | 30      | 0             | 102  | 73-130        | 30.21         | 1.35  | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005946-22A | 1005946-23A | 1005946-24A |
| 1005946-25A |             |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005946  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R92085 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-060610-R92085 Units: µg/Kg Analysis Date: 6/6/2010 09:49 AM

Client ID: Run ID: BTEX3\_100606A SeqNo: 1985298 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.15  | 1.0 | 30      | 0             | 107  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 29.57  | 1.0 | 30      | 0             | 98.6 | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-060610-R92085 Units: µg/Kg Analysis Date: 6/6/2010 08:04 AM

Client ID: Run ID: BTEX3\_100606A SeqNo: 1985297 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.65  | 1.0 | 20      | 0             | 98.2 | 74-129        | 0             |      |           |      |
| Toluene                    | 20.23  | 1.0 | 20      | 0             | 101  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 19.77  | 1.0 | 20      | 0             | 98.8 | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 59.56  | 3.0 | 60      | 0             | 99.3 | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 31.95  | 1.0 | 30      | 0             | 107  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.89  | 1.0 | 30      | 0             | 103  | 73-130        | 0             |      |           |      |

MS Sample ID: 1005946-26AMS Units: µg/Kg Analysis Date: 6/6/2010 10:29 AM

Client ID: MW-23 50' Run ID: BTEX3\_100606A SeqNo: 1985300 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.28  | 1.0 | 20      | 0             | 101  | 74-129        | 0             |      |           |      |
| Toluene                    | 20.65  | 1.0 | 20      | 0             | 103  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 20.44  | 1.0 | 20      | 0             | 102  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 62.29  | 3.0 | 60      | 0             | 104  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.46  | 1.0 | 30      | 0             | 108  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.02  | 1.0 | 30      | 0             | 103  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1005946-26AMSD Units: µg/Kg Analysis Date: 6/6/2010 10:49 AM

Client ID: MW-23 50' Run ID: BTEX3\_100606A SeqNo: 1985302 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 19.99  | 1.0 | 20      | 0             | 100  | 74-129        | 20.28         | 1.42  | 30        |      |
| Toluene                    | 20.46  | 1.0 | 20      | 0             | 102  | 75-128        | 20.65         | 0.941 | 30        |      |
| Ethylbenzene               | 20.41  | 1.0 | 20      | 0             | 102  | 73-127        | 20.44         | 0.119 | 30        |      |
| Xylenes, Total             | 62.18  | 3.0 | 60      | 0             | 104  | 74-127        | 62.29         | 0.179 | 30        |      |
| Surr: 4-Bromofluorobenzene | 32.91  | 1.0 | 30      | 0             | 110  | 75-131        | 32.46         | 1.37  | 30        |      |
| Surr: Trifluorotoluene     | 31.32  | 1.0 | 30      | 0             | 104  | 73-130        | 31.02         | 0.941 | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1005946  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **R92085**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005946-26A | 1005946-27A | 1005946-28A |
| 1005946-29A | 1005946-30A | 1005946-31A |
| 1005946-32A | 1005946-33A | 1005946-34A |
| 1005946-35A | 1005946-36A | 1005946-37A |
| 1005946-38A | 1005946-39A | 1005946-40A |
| 1005946-41A | 1005946-42A | 1005946-43A |
| 1005946-44A |             |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1005946  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **R92146** Instrument ID **FID-9** Method: **SW8015**

|                            |         |                                       |         |               |      |                       |               |                                         |           |              |
|----------------------------|---------|---------------------------------------|---------|---------------|------|-----------------------|---------------|-----------------------------------------|-----------|--------------|
| <b>MBLK</b>                |         | Sample ID: <b>GBLKS-060710-R92146</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>6/7/2010 10:24 AM</b> |           |              |
| Client ID:                 |         | Run ID: <b>FID-9_100607A</b>          |         |               |      | SeqNo: <b>1986805</b> |               | Prep Date:                              |           | DF: <b>1</b> |
| Analyte                    | Result  | PQL                                   | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                    | RPD Limit | Qual         |
| Gasoline Range Organics    | ND      | 0.050                                 |         |               |      |                       |               |                                         |           |              |
| Surr: 4-Bromofluorobenzene | 0.09675 | 0.0050                                | 0.1     | 0             | 96.7 | 70-130                | 0             |                                         |           |              |

|                            |        |                                       |         |               |      |                       |               |                                         |           |              |
|----------------------------|--------|---------------------------------------|---------|---------------|------|-----------------------|---------------|-----------------------------------------|-----------|--------------|
| <b>LCS</b>                 |        | Sample ID: <b>GLCSS-060710-R92146</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>6/7/2010 10:01 AM</b> |           |              |
| Client ID:                 |        | Run ID: <b>FID-9_100607A</b>          |         |               |      | SeqNo: <b>1986804</b> |               | Prep Date:                              |           | DF: <b>1</b> |
| Analyte                    | Result | PQL                                   | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                    | RPD Limit | Qual         |
| Gasoline Range Organics    | 1.075  | 0.050                                 | 1       | 0             | 108  | 70-130                | 0             |                                         |           |              |
| Surr: 4-Bromofluorobenzene | 0.1045 | 0.0050                                | 0.1     | 0             | 105  | 70-130                | 0             |                                         |           |              |

|                              |        |                                 |         |               |      |                       |               |                                         |           |              |
|------------------------------|--------|---------------------------------|---------|---------------|------|-----------------------|---------------|-----------------------------------------|-----------|--------------|
| <b>MS</b>                    |        | Sample ID: <b>1005946-32BMS</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>6/7/2010 01:17 PM</b> |           |              |
| Client ID: <b>MW-23 100'</b> |        | Run ID: <b>FID-9_100607A</b>    |         |               |      | SeqNo: <b>1986812</b> |               | Prep Date:                              |           | DF: <b>1</b> |
| Analyte                      | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                    | RPD Limit | Qual         |
| Gasoline Range Organics      | 1.026  | 0.050                           | 1       | 0             | 103  | 70-130                | 0             |                                         |           |              |
| Surr: 4-Bromofluorobenzene   | 0.1042 | 0.0050                          | 0.1     | 0             | 104  | 70-130                | 0             |                                         |           |              |

|                              |        |                                  |         |               |      |                       |               |                                         |           |              |
|------------------------------|--------|----------------------------------|---------|---------------|------|-----------------------|---------------|-----------------------------------------|-----------|--------------|
| <b>MSD</b>                   |        | Sample ID: <b>1005946-32BMSD</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>6/7/2010 01:41 PM</b> |           |              |
| Client ID: <b>MW-23 100'</b> |        | Run ID: <b>FID-9_100607A</b>     |         |               |      | SeqNo: <b>1986813</b> |               | Prep Date:                              |           | DF: <b>1</b> |
| Analyte                      | Result | PQL                              | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                    | RPD Limit | Qual         |
| Gasoline Range Organics      | 1.065  | 0.050                            | 1       | 0             | 106  | 70-130                | 1.026         | 3.69                                    | 30        |              |
| Surr: 4-Bromofluorobenzene   | 0.1032 | 0.0050                           | 0.1     | 0             | 103  | 70-130                | 0.1042        | 0.984                                   | 30        |              |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005946-27B | 1005946-28B | 1005946-29B |
| 1005946-30B | 1005946-31B | 1005946-32B |
| 1005946-33B | 1005946-34B | 1005946-35B |
| 1005946-36B | 1005946-37B | 1005946-38B |
| 1005946-39B | 1005946-40B | 1005946-41B |
| 1005946-42B | 1005946-43B | 1005946-44B |

Client: Navajo Refining Company  
 Work Order: 1005946  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R92157 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-060810-R92157 Units: mg/Kg Analysis Date: 6/8/2010 10:07 PM

Client ID: Run ID: FID-9\_100608A SeqNo: 1987117 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND      | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08413 | 0.0050 | 0.1     | 0             | 84.1 | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-060810-R92157 Units: mg/Kg Analysis Date: 6/8/2010 09:42 PM

Client ID: Run ID: FID-9\_100608A SeqNo: 1987116 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.018   | 0.050  | 1       | 0             | 102  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.07592 | 0.0050 | 0.1     | 0             | 75.9 | 70-130        | 0             |      |           |      |

LCSD Sample ID: GLCSDS-060810-R92157 Units: mg/Kg Analysis Date: 6/9/2010 12:04 AM

Client ID: Run ID: FID-9\_100608A SeqNo: 1987123 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.105  | 0.050  | 1       | 0             | 110  | 70-130        | 1.018         | 8.23 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.0855 | 0.0050 | 0.1     | 0             | 85.5 | 70-130        | 0.07592       | 11.9 | 30        |      |

MS Sample ID: 1005946-44BMS Units: mg/Kg Analysis Date: 6/8/2010 10:54 PM

Client ID: MW-24 105' Run ID: FID-9\_100608A SeqNo: 1987119 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.018   | 0.050  | 1       | 0             | 102  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.08655 | 0.0050 | 0.1     | 0             | 86.6 | 70-130        | 0             |      |           |      |

MSD Sample ID: 1005946-44BMSD Units: mg/Kg Analysis Date: 6/8/2010 11:17 PM

Client ID: MW-24 105' Run ID: FID-9\_100608A SeqNo: 1987120 Prep Date: DF: 1

| Analyte                    | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|---------|--------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Gasoline Range Organics    | 1.022   | 0.050  | 1       | 0             | 102  | 70-130        | 1.018         | 0.342 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.08581 | 0.0050 | 0.1     | 0             | 85.8 | 70-130        | 0.08655       | 0.867 | 30        |      |

The following samples were analyzed in this batch:

1005946-44B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005946  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R92172 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-060710-R92172 Units: µg/Kg Analysis Date: 6/7/2010 11:13 AM

Client ID: Run ID: BTEX3\_100607A SeqNo: 1987628 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.5   | 1.0 | 30      | 0             | 102  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.66  | 1.0 | 30      | 0             | 102  | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-060710-R92172 Units: µg/Kg Analysis Date: 6/7/2010 10:30 AM

Client ID: Run ID: BTEX3\_100607A SeqNo: 1987627 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.32  | 1.0 | 20      | 0             | 96.6 | 74-129        | 0             |      |           |      |
| Toluene                    | 21.52  | 1.0 | 20      | 0             | 108  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 19.8   | 1.0 | 20      | 0             | 99   | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 60.93  | 3.0 | 60      | 0             | 102  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.77  | 1.0 | 30      | 0             | 99.2 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.07  | 1.0 | 30      | 0             | 100  | 73-130        | 0             |      |           |      |

MS Sample ID: 1005900-05AMS Units: µg/Kg Analysis Date: 6/7/2010 02:16 PM

Client ID: Run ID: BTEX3\_100607A SeqNo: 1987635 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.23  | 1.0 | 20      | 0             | 111  | 74-129        | 0             |      |           |      |
| Toluene                    | 23.8   | 1.0 | 20      | 0.6028        | 116  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.97  | 1.0 | 20      | 0             | 110  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 69.24  | 3.0 | 60      | 0             | 115  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 34.26  | 1.0 | 30      | 0             | 114  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 33.85  | 1.0 | 30      | 0             | 113  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1005900-05AMSD Units: µg/Kg Analysis Date: 6/7/2010 02:36 PM

Client ID: Run ID: BTEX3\_100607A SeqNo: 1987636 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.55  | 1.0 | 20      | 0             | 103  | 74-129        | 22.23         | 7.81 | 30        |      |
| Toluene                    | 20.09  | 1.0 | 20      | 0.6028        | 97.4 | 75-128        | 23.8          | 16.9 | 30        |      |
| Ethylbenzene               | 20.84  | 1.0 | 20      | 0             | 104  | 73-127        | 21.97         | 5.3  | 30        |      |
| Xylenes, Total             | 64.12  | 3.0 | 60      | 0             | 107  | 74-127        | 69.24         | 7.67 | 30        |      |
| Surr: 4-Bromofluorobenzene | 32.45  | 1.0 | 30      | 0             | 108  | 75-131        | 34.26         | 5.44 | 30        |      |
| Surr: Trifluorotoluene     | 31.91  | 1.0 | 30      | 0             | 106  | 73-130        | 33.85         | 5.9  | 30        |      |

The following samples were analyzed in this batch: 1005946-25A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
 Work Order: 1005946  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: 43441 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS1-060410-43441 Units: mg/Kg Analysis Date: 6/4/2010 10:33 PM

Client ID: Run ID: ICS2100\_100604C SeqNo: 1983974 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Surr: Selenate (surr) | 47.95  | 1.0 | 50      | 0             | 95.9 | 85-115        | 0             |      |           |      |

LCS Sample ID: WLCSS1-060410-43441 Units: mg/Kg Analysis Date: 6/4/2010 10:48 PM

Client ID: Run ID: ICS2100\_100604C SeqNo: 1983975 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 192.9  | 5.0 | 200     | 0             | 96.5 | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 48.01  | 1.0 | 50      | 0             | 96   | 85-115        | 0             |      |           |      |

MS Sample ID: 1005946-01BMS Units: mg/Kg Analysis Date: 6/4/2010 11:17 PM

Client ID: MW-16 10' Run ID: ICS2100\_100604C SeqNo: 1983977 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 134.2  | 5.0 | 100     | 38.99         | 95.2 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 49.38  | 1.0 | 50      | 0             | 98.8 | 80-120        | 0             |      |           |      |

MS Sample ID: 1005946-20BMS Units: mg/Kg Analysis Date: 6/5/2010 05:21 AM

Client ID: MW-22 90' Run ID: ICS2100\_100604C SeqNo: 1984002 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 107.3  | 5.0 | 99.6    | 13.19         | 94.4 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 48.36  | 1.0 | 49.8    | 0             | 97.1 | 80-120        | 0             |      |           |      |

MSD Sample ID: 1005946-01BMSD Units: mg/Kg Analysis Date: 6/4/2010 11:32 PM

Client ID: MW-16 10' Run ID: ICS2100\_100604C SeqNo: 1983978 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 131.6  | 5.0 | 100     | 38.99         | 92.6 | 75-125        | 134.2         | 2    | 20        |      |
| Surr: Selenate (surr) | 48.21  | 1.0 | 50      | 0             | 96.4 | 80-120        | 49.38         | 2.4  | 20        |      |

MSD Sample ID: 1005946-20BMSD Units: mg/Kg Analysis Date: 6/5/2010 05:35 AM

Client ID: MW-22 90' Run ID: ICS2100\_100604C SeqNo: 1984003 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 109.6  | 5.0 | 99.6    | 13.19         | 96.8 | 75-125        | 107.3         | 2.17 | 20        |      |
| Surr: Selenate (surr) | 49.87  | 1.0 | 49.8    | 0             | 100  | 80-120        | 48.36         | 3.08 | 20        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1005946  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **43441**

Instrument ID **ICS2100**

Method: **E300**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005946-01B | 1005946-02B | 1005946-03B |
| 1005946-04B | 1005946-05B | 1005946-06B |
| 1005946-07B | 1005946-08B | 1005946-09B |
| 1005946-10B | 1005946-11B | 1005946-12B |
| 1005946-13B | 1005946-14B | 1005946-15B |
| 1005946-16B | 1005946-17B | 1005946-18B |
| 1005946-19B | 1005946-20B |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005946  
 Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: 43442 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS2-060410-43442 Units: mg/Kg Analysis Date: 6/6/2010 07:36 AM

Client ID: Run ID: ICS2100\_100605D SeqNo: 1984240 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Surr: Selenate (surr) | 48.9   | 1.0 | 50      | 0             | 97.8 | 85-115        | 0             |      |           |      |

LCS Sample ID: WLCSS2-060410-43442 Units: mg/Kg Analysis Date: 6/6/2010 07:50 AM

Client ID: Run ID: ICS2100\_100605D SeqNo: 1984241 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 193.2  | 5.0 | 200     | 0             | 96.6 | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 48.03  | 1.0 | 50      | 0             | 96.1 | 85-115        | 0             |      |           |      |

MS Sample ID: 1005946-40BMS Units: mg/Kg Analysis Date: 6/6/2010 02:23 PM

Client ID: MW-24 80' Run ID: ICS2100\_100605D SeqNo: 1984268 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 101.4  | 5.0 | 100     | 5.19          | 96.2 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 50.15  | 1.0 | 50      | 0             | 100  | 80-120        | 0             |      |           |      |

MS Sample ID: 1005946-21BMS Units: mg/Kg Analysis Date: 6/6/2010 03:50 PM

Client ID: MW-22 95' Run ID: ICS2100\_100605D SeqNo: 1984272 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 106.4  | 5.0 | 100     | 9.76          | 96.7 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 50.64  | 1.0 | 50      | 0             | 101  | 80-120        | 0             |      |           |      |

MSD Sample ID: 1005946-40BMSD Units: mg/Kg Analysis Date: 6/6/2010 02:38 PM

Client ID: MW-24 80' Run ID: ICS2100\_100605D SeqNo: 1984269 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Chloride              | 101    | 5.0 | 100     | 5.19          | 95.9 | 75-125        | 101.4         | 0.385 | 20        |      |
| Surr: Selenate (surr) | 49.86  | 1.0 | 50      | 0             | 99.7 | 80-120        | 50.15         | 0.58  | 20        |      |

MSD Sample ID: 1005946-21BMSD Units: mg/Kg Analysis Date: 6/6/2010 04:05 PM

Client ID: MW-22 95' Run ID: ICS2100\_100605D SeqNo: 1984274 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 108.5  | 5.0 | 100     | 9.76          | 98.7 | 75-125        | 106.4         | 1.91 | 20        |      |
| Surr: Selenate (surr) | 51.59  | 1.0 | 50      | 0             | 103  | 80-120        | 50.64         | 1.86 | 20        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1005946  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **43442**

Instrument ID **ICS2100**

Method: **E300**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005946-21B | 1005946-22B | 1005946-23B |
| 1005946-24B | 1005946-25B | 1005946-26B |
| 1005946-27B | 1005946-28B | 1005946-29B |
| 1005946-30B | 1005946-31B | 1005946-32B |
| 1005946-33B | 1005946-34B | 1005946-35B |
| 1005946-36B | 1005946-37B | 1005946-38B |
| 1005946-39B | 1005946-40B |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1005946  
 Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: 43443 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS3-060410-43443 Units: mg/Kg Analysis Date: 6/7/2010 07:08 PM

Client ID: Run ID: ICS2100\_100607A SeqNo: 1985716 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Surr: Selenate (surr) | 48.05  | 1.0 | 50      | 0             | 96.1 | 85-115        | 0             |      |           |      |

LCS Sample ID: WLCSS3-060410-43443 Units: mg/Kg Analysis Date: 6/7/2010 07:22 PM

Client ID: Run ID: ICS2100\_100607A SeqNo: 1985717 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 194    | 5.0 | 200     | 0             | 97   | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 48.5   | 1.0 | 50      | 0             | 97   | 85-115        | 0             |      |           |      |

MS Sample ID: 1005946-41BMS Units: mg/Kg Analysis Date: 6/7/2010 07:51 PM

Client ID: MW-24 90' Run ID: ICS2100\_100607A SeqNo: 1985719 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 99.91  | 5.0 | 100     | 4.52          | 95.4 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 49.26  | 1.0 | 50      | 0             | 98.5 | 80-120        | 0             |      |           |      |

MSD Sample ID: 1005946-41BMSD Units: mg/Kg Analysis Date: 6/7/2010 08:06 PM

Client ID: MW-24 90' Run ID: ICS2100\_100607A SeqNo: 1985720 Prep Date: 6/4/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 96.66  | 5.0 | 100     | 4.52          | 92.1 | 75-125        | 99.91         | 3.31 | 20        |      |
| Surr: Selenate (surr) | 47.18  | 1.0 | 50      | 0             | 94.4 | 80-120        | 49.26         | 4.31 | 20        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1005946-41B | 1005946-42B | 1005946-43B |
| 1005946-44B | 1005946-47B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**WorkOrder:** 1005946

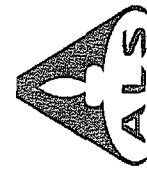
## **QUALIFIERS, ACRONYMS, UNITS**

| <u>Qualifier</u> | <u>Description</u>                                                        |
|------------------|---------------------------------------------------------------------------|
| *                | Value exceeds Regulatory Limit                                            |
| a                | Not accredited                                                            |
| B                | Analyte detected in the associated Method Blank above the Reporting Limit |
| E                | Value above quantitation range                                            |
| H                | Analyzed outside of Holding Time                                          |
| J                | Analyte detected below quantitation limit                                 |
| M                | Manually integrated, see raw data for justification                       |
| n                | Not offered for accreditation                                             |
| ND               | Not Detected at the Reporting Limit                                       |
| O                | Sample amount is > 4 times amount spiked                                  |
| P                | Dual Column results percent difference > 40%                              |
| R                | RPD above laboratory control limit                                        |
| S                | Spike Recovery outside laboratory control limits                          |
| U                | Analyzed but not detected above the MDL                                   |

| <u>Acronym</u> | <u>Description</u>                  |
|----------------|-------------------------------------|
| DUP            | Method Duplicate                    |
| LCS            | Laboratory Control Sample           |
| LCSD           | Laboratory Control Sample Duplicate |
| MBLK           | Method Blank                        |
| MDL            | Method Detection Limit              |
| MQL            | Method Quantitation Limit           |
| MS             | Matrix Spike                        |
| MSD            | Matrix Spike Duplicate              |
| PDS            | Post Digestion Spike                |
| PQL            | Practical Quantitation Limit        |
| SD             | Serial Dilution                     |
| SDL            | Sample Detection Limit              |
| TRRP           | Texas Risk Reduction Program        |

| <u>Units Reported</u> | <u>Description</u>      |
|-----------------------|-------------------------|
| mg/Kg                 | Milligrams per Kilogram |
| mg/L                  | Milligrams per Liter    |





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CHAIN OF CUSTODY FORM

ALS Laboratory Group

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Page 2 of 5

| Customer Information |                    |         |      | Project Information     |       |           |   | ALS Project Manager: [Signature] ALS Work Order #: 10546 |   |   |   |   |   |   |   |   |      |  |  |
|----------------------|--------------------|---------|------|-------------------------|-------|-----------|---|----------------------------------------------------------|---|---|---|---|---|---|---|---|------|--|--|
| Purchase Order       |                    |         |      | Lea Refinery New Wells  |       |           |   | Parameter/Method Request for Analysis                    |   |   |   |   |   |   |   |   |      |  |  |
| Work Order           |                    |         |      | NAV-10-003              |       |           |   | BTEX (0021)                                              |   |   |   |   |   |   |   |   |      |  |  |
| Company Name         |                    |         |      | Navajo Refining Company |       |           |   | GRO (8015M)                                              |   |   |   |   |   |   |   |   |      |  |  |
| Send Report To       |                    |         |      | Darrell Moore           |       |           |   | DRO (8015M)                                              |   |   |   |   |   |   |   |   |      |  |  |
| Address              |                    |         |      | P.O. Box 159            |       |           |   | CRO (8015M)                                              |   |   |   |   |   |   |   |   |      |  |  |
| City/State/Zip       |                    |         |      | Artesia, NM 88211       |       |           |   | Anions (300) Cl                                          |   |   |   |   |   |   |   |   |      |  |  |
| Phone                |                    |         |      | (505) 748-3311          |       |           |   |                                                          |   |   |   |   |   |   |   |   |      |  |  |
| Fax                  |                    |         |      | (505) 746-5421          |       |           |   |                                                          |   |   |   |   |   |   |   |   |      |  |  |
| e-Mail Address       |                    |         |      | dgmoyet@SES1-NM.com     |       |           |   |                                                          |   |   |   |   |   |   |   |   |      |  |  |
| No.                  | Sample Description | Date    | Time | Matrix                  | Pres. | # Bottles | A | B                                                        | C | D | E | F | G | H | I | J | Hold |  |  |
| 1                    | MW-16 105'         | 5/24/12 | 1150 | Soil                    | 8     | 2         | X | X                                                        | X | X | X |   |   |   |   |   |      |  |  |
| 2                    | MW-22 5-18'        | 5/25/12 | 1030 |                         |       |           |   |                                                          |   |   |   |   |   |   |   |   |      |  |  |
| 3                    | 20'                |         | 1040 |                         |       |           |   |                                                          |   |   |   |   |   |   |   |   |      |  |  |
| 4                    | 30'                |         | 1250 |                         |       |           |   |                                                          |   |   |   |   |   |   |   |   |      |  |  |
| 5                    | 40'                |         | 1100 |                         |       |           |   |                                                          |   |   |   |   |   |   |   |   |      |  |  |
| 6                    | 50'                |         | 1110 |                         |       |           |   |                                                          |   |   |   |   |   |   |   |   |      |  |  |
| 7                    | 60'                |         | 1120 |                         |       |           |   |                                                          |   |   |   |   |   |   |   |   |      |  |  |
| 8                    | 70'                |         | 1130 |                         |       |           |   |                                                          |   |   |   |   |   |   |   |   |      |  |  |
| 9                    | 80'                |         | 1140 |                         |       |           |   |                                                          |   |   |   |   |   |   |   |   |      |  |  |
| 10                   | 90'                | 5/25/12 | 1150 | Soil                    | 8     | 2         | X | X                                                        | X | X | X |   |   |   |   |   |      |  |  |

Required Turnaround Time: (Check Box) ☒ 10 Day TAT, Co. Dave Boyer

Received by: [Signature] Date: 5/27/12 Time: 1630

Relinquished by: [Signature] Date: 5/27/12 Time: 1630

Shipment Method: FedEx

Logged by (Laboratory): [Signature] Date: 5/27/12 Time: 1630

Relinquished by: [Signature] Date: 5/27/12 Time: 1630

Preservative Key: 1-HCl, 2-HNO<sub>3</sub>, 3-H<sub>2</sub>SO<sub>4</sub>, 4-NaOH, 5-Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, 6-NaHSO<sub>3</sub>, 7-Other: 8-4°C, 9-5035

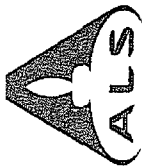
QC Packages: (Check One Box Below) ☒ Level II Std QC ☐ TRRP Check/Std ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW/04/CLP ☐ Other





1

3. *The Chain of Custody is a legal document. All information must be completed accurately.*



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Houston, Texas 77099  
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# Main of Custody Form

ALS Laboratory Group

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Fax: +1 616 399 6185

Page 4 of 5

| Customer Information |                    |         |      | Project Information                   |       |           |   | ALS Work Order # |   |   |   |   |   |   |   |   |      |  |  |
|----------------------|--------------------|---------|------|---------------------------------------|-------|-----------|---|------------------|---|---|---|---|---|---|---|---|------|--|--|
| ALS Project Manager  |                    |         |      | Parameter/Method Request for Analysis |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| Project Name         |                    |         |      | Lea Refinery New Wells                |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| Project Number       |                    |         |      | NAV-10-003                            |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| Bill To Company      |                    |         |      | Navajo Refining Company               |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| Invoice Attn         |                    |         |      | Darrell Moore                         |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| Address              |                    |         |      | P.O. Box 159                          |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| City/State/Zip       |                    |         |      | Artesia, NM 88211                     |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| Phone                |                    |         |      | (505) 748-3311                        |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| Fax                  |                    |         |      | (505) 746-5421                        |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| e-Mail Address       |                    |         |      | dgboyer@SES-NM.com                    |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| No.                  | Sample Description | Date    | Time | Matrix                                | Pres. | # Bottles | A | B                | C | D | E | F | G | H | I | J | Hold |  |  |
| 1                    | MW-23 95'          | 5/26/10 | 1705 | 50:1                                  | 8     | 2         | X | X                | X | X | X |   |   |   |   |   |      |  |  |
| 2                    | MW-23 100'         |         | 1015 |                                       |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| 3                    | MW-24 101'         |         | 1505 |                                       |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| 4                    |                    |         | 1520 |                                       |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| 5                    |                    |         | 1530 |                                       |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| 6                    |                    |         | 1540 |                                       |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| 7                    |                    |         | 1550 |                                       |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| 8                    |                    |         | 1605 |                                       |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| 9                    |                    |         | 1620 |                                       |       |           |   |                  |   |   |   |   |   |   |   |   |      |  |  |
| 10                   | MW-24 80           | 5/26/10 | 1635 | 50:1                                  | 8     | 2         | X | X                | X | X | X |   |   |   |   |   |      |  |  |

Sampler(s) Please Print & Sign: D.G. Boyer Shipment Method: FedEx

Relinquished by: D.G. Boyer Date: 5/27/10 Time: 1630

Relinquished by: D.G. Boyer Date: 5/27/10 Time: 1630

Logged by (Laboratory): D.G. Boyer Date: 5/27/10 Time: 1630

Preservative Key: 1-HCl 2-HNO<sub>3</sub> 3-H<sub>2</sub>SO<sub>4</sub> 4-NaOH 5-Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-NaHSO<sub>3</sub> 7-Other: 8-4°C 9-5035

Notes: 10 Day TAT. Co Dave Boyer

QC Package: (Check One Box Below) ☒ Level II Std QC ☐ TRRP Checklist ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW/MS/CLP ☐ Other







24-Aug-2010

Darrell Moore  
Navajo Refining Company  
PO Box 159  
Artesia, NM 88211

Tel: (575) 748-6733  
Fax: (575) 746-5421

Re: Lea Refinery New Wells

Work Order: 1006149

Dear Darrell,

ALS Environmental received 13 samples on 04-Jun-2010 08:55 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 31.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "JayLynn F Thibault".

Electronically approved by: JayLynn F Thibault

JayLynn F Thibault  
Project Manager



Certificate No: T104704231-09A-TX

Client: Navajo Refining Company  
Project: Lea Refinery New Wells  
Work Order: 1006149

**Work Order Sample Summary**

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1006149-01         | MW-26 10'               | Soil          |                   | 6/2/2010 08:15         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006149-02         | MW-26 20'               | Soil          |                   | 6/2/2010 08:25         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006149-03         | MW-26 30'               | Soil          |                   | 6/2/2010 08:35         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006149-04         | MW-26 40'               | Soil          |                   | 6/2/2010 08:50         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006149-05         | MW-26 50'               | Soil          |                   | 6/2/2010 09:05         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006149-06         | MW-26 60'               | Soil          |                   | 6/2/2010 09:15         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006149-07         | MW-26 70'               | Soil          |                   | 6/2/2010 09:30         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006149-08         | MW-26 80'               | Soil          |                   | 6/2/2010 09:40         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006149-09         | MW-26 90'               | Soil          |                   | 6/2/2010 09:50         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006149-10         | MW-26 100'              | Soil          |                   | 6/2/2010 10:00         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006149-11         | MW-26 110'              | Soil          |                   | 6/2/2010 10:20         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006149-12         | MW-26 105'              | Soil          |                   | 6/2/2010 10:10         | 6/4/2010 08:55       | <input type="checkbox"/> |
| 1006149-13         | Trip Blank 051710-37    | Water         |                   | 6/2/2010               | 6/4/2010 08:55       | <input type="checkbox"/> |

## ALS Environmental

Date: 24-Aug-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006149

### Case Narrative

Samples 1006149-02A, 03A, 04A, 05A, 06A, 07A, 08A & 10A were re-analyzed out of hold-time upon client's request to check the hit for Toluene.

Upon reanalysis of these samples the Toluene hit was not present. This could be due to a lab artifact from construction.

# ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-26 10'

Collection Date: 6/2/2010 08:15 AM

Work Order: 1006149

Lab ID: 1006149-01

Matrix: SOIL

| Analyses                       | Result     | Qual | Report Limit   | Units        | Dilution Factor     | Date Analyzed      |
|--------------------------------|------------|------|----------------|--------------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |            |      | <b>SW8015M</b> |              | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND         |      | 1.7            | mg/Kg        | 1                   | 6/8/2010 12:08 AM  |
| <b>TPH (Motor Oil Range)</b>   | <b>5.3</b> |      | <b>3.4</b>     | <b>mg/Kg</b> | 1                   | 6/8/2010 12:08 AM  |
| Surr: 2-Fluorobiphenyl         | 90.1       |      | 70-130         | %REC         | 1                   | 6/8/2010 12:08 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |            |      | <b>SW8015</b>  |              |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND         |      | 0.050          | mg/Kg        | 1                   | 6/10/2010 07:01 PM |
| Surr: 4-Bromofluorobenzene     | 83.0       |      | 70-130         | %REC         | 1                   | 6/10/2010 07:01 PM |
| <b>BTEX</b>                    |            |      | <b>SW8021B</b> |              |                     | Analyst: KKP       |
| Benzene                        | ND         |      | 0.0010         | mg/Kg        | 1                   | 6/9/2010 06:44 PM  |
| Toluene                        | ND         |      | 0.0010         | mg/Kg        | 1                   | 6/9/2010 06:44 PM  |
| Ethylbenzene                   | ND         |      | 0.0010         | mg/Kg        | 1                   | 6/9/2010 06:44 PM  |
| Xylenes, Total                 | ND         |      | 0.0030         | mg/Kg        | 1                   | 6/9/2010 06:44 PM  |
| Surr: 4-Bromofluorobenzene     | 119        |      | 75-131         | %REC         | 1                   | 6/9/2010 06:44 PM  |
| Surr: Trifluorotoluene         | 101        |      | 73-130         | %REC         | 1                   | 6/9/2010 06:44 PM  |
| <b>ANIONS</b>                  |            |      | <b>E300</b>    |              | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | ND         |      | 4.97           | mg/Kg        | 1                   | 6/8/2010 06:04 PM  |
| Surr: Selenate (surr)          | 98.5       |      | 85-115         | %REC         | 1                   | 6/8/2010 06:04 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-26 20'

Collection Date: 6/2/2010 08:25 AM

Work Order: 1006149

Lab ID: 1006149-02

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed      |
|--------------------------------|--------|------|--------------|-------|-----------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |       |                 |                    |
| TPH (Diesel Range)             | ND     |      | 1.7          | mg/Kg | 1               | 6/8/2010 01:06 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4          | mg/Kg | 1               | 6/8/2010 01:06 AM  |
| Surr: 2-Fluorobiphenyl         | 87.4   |      | 70-130       | %REC  | 1               | 6/8/2010 01:06 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |       |                 |                    |
| Gasoline Range Organics        | ND     |      | 0.050        | mg/Kg | 1               | 6/10/2010 07:24 PM |
| Surr: 4-Bromofluorobenzene     | 87.1   |      | 70-130       | %REC  | 1               | 6/10/2010 07:24 PM |
| <b>BTEX</b>                    |        |      |              |       |                 |                    |
| Benzene                        | ND     |      | 0.0010       | mg/Kg | 1               | 6/9/2010 07:04 PM  |
| Benzene                        | ND     | H    | 0.0010       | mg/Kg | 1               | 7/20/2010 06:46 PM |
| Benzene                        | ND     | H    | 0.0010       | mg/Kg | 1               | 6/24/2010 04:09 PM |
| Toluene                        | 0.0024 |      | 0.0010       | mg/Kg | 1               | 6/9/2010 07:04 PM  |
| Toluene                        | ND     | H    | 0.0010       | mg/Kg | 1               | 6/24/2010 04:09 PM |
| Toluene                        | ND     | H    | 0.0010       | mg/Kg | 1               | 7/20/2010 06:46 PM |
| Ethylbenzene                   | ND     |      | 0.0010       | mg/Kg | 1               | 6/9/2010 07:04 PM  |
| Ethylbenzene                   | ND     | H    | 0.0010       | mg/Kg | 1               | 6/24/2010 04:09 PM |
| Ethylbenzene                   | ND     | H    | 0.0010       | mg/Kg | 1               | 7/20/2010 06:46 PM |
| Xylenes, Total                 | ND     |      | 0.0030       | mg/Kg | 1               | 6/9/2010 07:04 PM  |
| Xylenes, Total                 | ND     | H    | 0.0030       | mg/Kg | 1               | 7/20/2010 06:46 PM |
| Xylenes, Total                 | ND     | H    | 0.0030       | mg/Kg | 1               | 6/24/2010 04:09 PM |
| Surr: 4-Bromofluorobenzene     | 116    |      | 75-131       | %REC  | 1               | 6/9/2010 07:04 PM  |
| Surr: 4-Bromofluorobenzene     | 92.2   |      | 75-131       | %REC  | 1               | 7/20/2010 06:46 PM |
| Surr: 4-Bromofluorobenzene     | 95.6   |      | 75-131       | %REC  | 1               | 6/24/2010 04:09 PM |
| Surr: Trifluorotoluene         | 95.1   |      | 73-130       | %REC  | 1               | 6/24/2010 04:09 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130       | %REC  | 1               | 6/9/2010 07:04 PM  |
| Surr: Trifluorotoluene         | 91.6   |      | 73-130       | %REC  | 1               | 7/20/2010 06:46 PM |
| <b>ANIONS</b>                  |        |      |              |       |                 |                    |
| Chloride                       | ND     |      | 4.94         | mg/Kg | 1               | 6/8/2010 07:08 PM  |
| Surr: Selenate (surr)          | 98.2   |      | 85-115       | %REC  | 1               | 6/8/2010 07:08 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Sep-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-26 30'  
**Collection Date:** 6/2/2010 08:35 AM

**Work Order:** 1006149  
**Lab ID:** 1006149-03  
**Matrix:** SOIL

| Analyses                       | Result        | Qual | Report Limit   | Units        | Dilution Factor     | Date Analyzed      |
|--------------------------------|---------------|------|----------------|--------------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8015M</b> |              | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND            |      | 1.7            | mg/Kg        | 1                   | 6/8/2010 01:25 AM  |
| TPH (Motor Oil Range)          | ND            |      | 3.4            | mg/Kg        | 1                   | 6/8/2010 01:25 AM  |
| Surr: 2-Fluorobiphenyl         | 70.7          |      | 70-130         | %REC         | 1                   | 6/8/2010 01:25 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8015</b>  |              |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND            |      | 0.050          | mg/Kg        | 1                   | 6/10/2010 07:47 PM |
| Surr: 4-Bromofluorobenzene     | 84.4          |      | 70-130         | %REC         | 1                   | 6/10/2010 07:47 PM |
| <b>BTEX</b>                    |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8021B</b> |              |                     | Analyst: KKP       |
| Benzene                        | ND            |      | 0.0010         | mg/Kg        | 1                   | 6/9/2010 07:24 PM  |
| Benzene                        | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 07:06 PM |
| Benzene                        | ND            | HH   | 0.0010         | mg/Kg        | 1                   | 6/24/2010 03:49 PM |
| <b>Toluene</b>                 | <b>0.0022</b> |      | <b>0.0010</b>  | <b>mg/Kg</b> | 1                   | 6/9/2010 07:24 PM  |
| Toluene                        | ND            | HH   | 0.0010         | mg/Kg        | 1                   | 6/24/2010 03:49 PM |
| Toluene                        | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 07:06 PM |
| Ethylbenzene                   | ND            |      | 0.0010         | mg/Kg        | 1                   | 6/9/2010 07:24 PM  |
| Ethylbenzene                   | ND            | HH   | 0.0010         | mg/Kg        | 1                   | 6/24/2010 03:49 PM |
| Ethylbenzene                   | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 07:06 PM |
| Xylenes, Total                 | ND            |      | 0.0030         | mg/Kg        | 1                   | 6/9/2010 07:24 PM  |
| Xylenes, Total                 | ND            | H    | 0.0030         | mg/Kg        | 1                   | 7/20/2010 07:06 PM |
| Xylenes, Total                 | ND            | HH   | 0.0030         | mg/Kg        | 1                   | 6/24/2010 03:49 PM |
| Surr: 4-Bromofluorobenzene     | 109           |      | 75-131         | %REC         | 1                   | 6/9/2010 07:24 PM  |
| Surr: 4-Bromofluorobenzene     | 93.7          |      | 75-131         | %REC         | 1                   | 7/20/2010 07:06 PM |
| Surr: 4-Bromofluorobenzene     | 84.0          |      | 75-131         | %REC         | 1                   | 6/24/2010 03:49 PM |
| Surr: Trifluorotoluene         | 82.7          |      | 73-130         | %REC         | 1                   | 6/24/2010 03:49 PM |
| Surr: Trifluorotoluene         | 98.7          |      | 73-130         | %REC         | 1                   | 6/9/2010 07:24 PM  |
| Surr: Trifluorotoluene         | 92.1          |      | 73-130         | %REC         | 1                   | 7/20/2010 07:06 PM |
| <b>ANIONS</b>                  |               |      |                |              |                     |                    |
|                                |               |      | <b>E300</b>    |              | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | ND            |      | 4.98           | mg/Kg        | 1                   | 6/8/2010 07:29 PM  |
| Surr: Selenate (surr)          | 98.5          |      | 85-115         | %REC         | 1                   | 6/8/2010 07:29 PM  |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006149

Sample ID: MW-26 40'

Lab ID: 1006149-04

Collection Date: 6/2/2010 08:50 AM

Matrix: SOIL

| Analyses                       | Result        | Qual | Report Limit   | Units        | Dilution Factor     | Date Analyzed      |
|--------------------------------|---------------|------|----------------|--------------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8015M</b> |              | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND            |      | 1.7            | mg/Kg        | 1                   | 6/8/2010 01:44 AM  |
| TPH (Motor Oil Range)          | ND            |      | 3.4            | mg/Kg        | 1                   | 6/8/2010 01:44 AM  |
| Surr: 2-Fluorobiphenyl         | 75.4          |      | 70-130         | %REC         | 1                   | 6/8/2010 01:44 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8015</b>  |              |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND            |      | 0.050          | mg/Kg        | 1                   | 6/10/2010 08:10 PM |
| Surr: 4-Bromofluorobenzene     | 85.3          |      | 70-130         | %REC         | 1                   | 6/10/2010 08:10 PM |
| <b>BTEX</b>                    |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8021B</b> |              |                     | Analyst: KKP       |
| Benzene                        | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 07:26 PM |
| Benzene                        | ND            |      | 0.0010         | mg/Kg        | 1                   | 6/9/2010 07:44 PM  |
| Toluene                        | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 07:26 PM |
| <b>Toluene</b>                 | <b>0.0018</b> |      | <b>0.0010</b>  | <b>mg/Kg</b> | 1                   | 6/9/2010 07:44 PM  |
| Ethylbenzene                   | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 07:26 PM |
| Ethylbenzene                   | ND            |      | 0.0010         | mg/Kg        | 1                   | 6/9/2010 07:44 PM  |
| Xylenes, Total                 | ND            |      | 0.0030         | mg/Kg        | 1                   | 6/9/2010 07:44 PM  |
| Xylenes, Total                 | ND            | H    | 0.0030         | mg/Kg        | 1                   | 7/20/2010 07:26 PM |
| Surr: 4-Bromofluorobenzene     | 111           |      | 75-131         | %REC         | 1                   | 6/9/2010 07:44 PM  |
| Surr: 4-Bromofluorobenzene     | 95.5          |      | 75-131         | %REC         | 1                   | 7/20/2010 07:26 PM |
| Surr: Trifluorotoluene         | 93.0          |      | 73-130         | %REC         | 1                   | 7/20/2010 07:26 PM |
| Surr: Trifluorotoluene         | 101           |      | 73-130         | %REC         | 1                   | 6/9/2010 07:44 PM  |
| <b>ANIONS</b>                  |               |      |                |              |                     |                    |
|                                |               |      | <b>E300</b>    |              | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 7.70          |      | 4.94           | mg/Kg        | 1                   | 6/8/2010 07:51 PM  |
| Surr: Selenate (surr)          | 98.8          |      | 85-115         | %REC         | 1                   | 6/8/2010 07:51 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Sep-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-26 50'  
**Collection Date:** 6/2/2010 09:05 AM

**Work Order:** 1006149  
**Lab ID:** 1006149-05  
**Matrix:** SOIL

| Analyses                       | Result        | Qual | Report Limit   | Units        | Dilution Factor     | Date Analyzed      |
|--------------------------------|---------------|------|----------------|--------------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8015M</b> |              | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND            |      | 1.7            | mg/Kg        | 1                   | 6/8/2010 02:04 AM  |
| TPH (Motor Oil Range)          | ND            |      | 3.4            | mg/Kg        | 1                   | 6/8/2010 02:04 AM  |
| Surr: 2-Fluorobiphenyl         | 87.5          |      | 70-130         | %REC         | 1                   | 6/8/2010 02:04 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8015</b>  |              |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND            |      | 0.050          | mg/Kg        | 1                   | 6/10/2010 08:33 PM |
| Surr: 4-Bromofluorobenzene     | 86.3          |      | 70-130         | %REC         | 1                   | 6/10/2010 08:33 PM |
| <b>BTEX</b>                    |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8021B</b> |              |                     | Analyst: KKP       |
| Benzene                        | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 07:46 PM |
| Benzene                        | ND            |      | 0.0010         | mg/Kg        | 1                   | 6/9/2010 08:04 PM  |
| Toluene                        | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 07:46 PM |
| <b>Toluene</b>                 | <b>0.0017</b> |      | <b>0.0010</b>  | <b>mg/Kg</b> | 1                   | 6/9/2010 08:04 PM  |
| Ethylbenzene                   | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 07:46 PM |
| Ethylbenzene                   | ND            |      | 0.0010         | mg/Kg        | 1                   | 6/9/2010 08:04 PM  |
| Xylenes, Total                 | ND            |      | 0.0030         | mg/Kg        | 1                   | 6/9/2010 08:04 PM  |
| Xylenes, Total                 | ND            | H    | 0.0030         | mg/Kg        | 1                   | 7/20/2010 07:46 PM |
| Surr: 4-Bromofluorobenzene     | 114           |      | 75-131         | %REC         | 1                   | 6/9/2010 08:04 PM  |
| Surr: 4-Bromofluorobenzene     | 95.1          |      | 75-131         | %REC         | 1                   | 7/20/2010 07:46 PM |
| Surr: Trifluorotoluene         | 92.7          |      | 73-130         | %REC         | 1                   | 7/20/2010 07:46 PM |
| Surr: Trifluorotoluene         | 101           |      | 73-130         | %REC         | 1                   | 6/9/2010 08:04 PM  |
| <b>ANIONS</b>                  |               |      |                |              |                     |                    |
|                                |               |      | <b>E300</b>    |              | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | ND            |      | 5.00           | mg/Kg        | 1                   | 6/8/2010 08:12 PM  |
| Surr: Selenate (surr)          | 98.4          |      | 85-115         | %REC         | 1                   | 6/8/2010 08:12 PM  |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006149

Sample ID: MW-26 60'

Lab ID: 1006149-06

Collection Date: 6/2/2010 09:15 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 02:23 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 02:23 AM  |
| Surr: 2-Fluorobiphenyl         | 83.3   |      | 70-130         | %REC  | 1                   | 6/8/2010 02:23 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/10/2010 08:56 PM |
| Surr: 4-Bromofluorobenzene     | 81.2   |      | 70-130         | %REC  | 1                   | 6/10/2010 08:56 PM |
| <b>BTEX</b>                    |        |      |                |       |                     |                    |
|                                |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     | H    | 0.0010         | mg/Kg | 1                   | 7/20/2010 08:06 PM |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/9/2010 08:24 PM  |
| Toluene                        | ND     | H    | 0.0010         | mg/Kg | 1                   | 7/20/2010 08:06 PM |
| Toluene                        | 0.0016 |      | 0.0010         | mg/Kg | 1                   | 6/9/2010 08:24 PM  |
| Ethylbenzene                   | ND     | H    | 0.0010         | mg/Kg | 1                   | 7/20/2010 08:06 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/9/2010 08:24 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/9/2010 08:24 PM  |
| Xylenes, Total                 | ND     | H    | 0.0030         | mg/Kg | 1                   | 7/20/2010 08:06 PM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 75-131         | %REC  | 1                   | 6/9/2010 08:24 PM  |
| Surr: 4-Bromofluorobenzene     | 95.7   |      | 75-131         | %REC  | 1                   | 7/20/2010 08:06 PM |
| Surr: Trifluorotoluene         | 92.3   |      | 73-130         | %REC  | 1                   | 7/20/2010 08:06 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                   | 6/9/2010 08:24 PM  |
| <b>ANIONS</b>                  |        |      |                |       |                     |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.95           | mg/Kg | 1                   | 6/8/2010 08:33 PM  |
| Surr: Selenate (surr)          | 99.0   |      | 85-115         | %REC  | 1                   | 6/8/2010 08:33 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-26 70'

Collection Date: 6/2/2010 09:30 AM

Work Order: 1006149

Lab ID: 1006149-07

Matrix: SOIL

| Analyses                       | Result        | Qual | Report Limit   | Units        | Dilution Factor     | Date Analyzed      |
|--------------------------------|---------------|------|----------------|--------------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8015M</b> |              | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND            |      | 1.7            | mg/Kg        | 1                   | 6/8/2010 02:43 AM  |
| TPH (Motor Oil Range)          | ND            |      | 3.4            | mg/Kg        | 1                   | 6/8/2010 02:43 AM  |
| Surr: 2-Fluorobiphenyl         | 72.7          |      | 70-130         | %REC         | 1                   | 6/8/2010 02:43 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8015</b>  |              |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND            |      | 0.050          | mg/Kg        | 1                   | 6/10/2010 09:19 PM |
| Surr: 4-Bromofluorobenzene     | 81.8          |      | 70-130         | %REC         | 1                   | 6/10/2010 09:19 PM |
| <b>BTEX</b>                    |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8021B</b> |              |                     | Analyst: KKP       |
| Benzene                        | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 08:25 PM |
| Benzene                        | ND            |      | 0.0010         | mg/Kg        | 1                   | 6/9/2010 08:44 PM  |
| Toluene                        | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 08:25 PM |
| <b>Toluene</b>                 | <b>0.0015</b> |      | <b>0.0010</b>  | <b>mg/Kg</b> | 1                   | 6/9/2010 08:44 PM  |
| Ethylbenzene                   | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 08:25 PM |
| Ethylbenzene                   | ND            |      | 0.0010         | mg/Kg        | 1                   | 6/9/2010 08:44 PM  |
| Xylenes, Total                 | ND            |      | 0.0030         | mg/Kg        | 1                   | 6/9/2010 08:44 PM  |
| Xylenes, Total                 | ND            | H    | 0.0030         | mg/Kg        | 1                   | 7/20/2010 08:25 PM |
| Surr: 4-Bromofluorobenzene     | 111           |      | 75-131         | %REC         | 1                   | 6/9/2010 08:44 PM  |
| Surr: 4-Bromofluorobenzene     | 95.6          |      | 75-131         | %REC         | 1                   | 7/20/2010 08:25 PM |
| Surr: Trifluorotoluene         | 93.4          |      | 73-130         | %REC         | 1                   | 7/20/2010 08:25 PM |
| Surr: Trifluorotoluene         | 99.0          |      | 73-130         | %REC         | 1                   | 6/9/2010 08:44 PM  |
| <b>ANIONS</b>                  |               |      |                |              |                     |                    |
|                                |               |      | <b>E300</b>    |              | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | ND            |      | 4.92           | mg/Kg        | 1                   | 6/8/2010 09:37 PM  |
| Surr: Selenate (surr)          | 98.1          |      | 85-115         | %REC         | 1                   | 6/8/2010 09:37 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006149

Sample ID: MW-26 80'

Lab ID: 1006149-08

Collection Date: 6/2/2010 09:40 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|--------------|--------------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                     |                    |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Motor Oil Range)          | ND     |      |              | 3.4 mg/Kg    | 1                   | 6/8/2010 03:02 AM  |
| Surr: 2-Fluorobiphenyl         | 79.9   |      | 70-130       | %REC         | 1                   | 6/8/2010 03:02 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                     |                    |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1                   | Analyst: KKP       |
| Surr: 4-Bromofluorobenzene     | 83.9   |      | 70-130       | %REC         | 1                   | 6/10/2010 09:42 PM |
| <b>BTEX</b>                    |        |      |              |              |                     |                    |
| Benzene                        | ND     | H    | SW8021B      | 0.0010 mg/Kg | 1                   | Analyst: KKP       |
| Benzene                        | ND     |      |              | 0.0010 mg/Kg | 1                   | 7/20/2010 08:45 PM |
| Toluene                        | ND     | H    |              | 0.0010 mg/Kg | 1                   | 6/9/2010 09:04 PM  |
| Toluene                        | 0.0017 |      |              | 0.0010 mg/Kg | 1                   | 7/20/2010 08:45 PM |
| Ethylbenzene                   | ND     | H    |              | 0.0010 mg/Kg | 1                   | 6/9/2010 09:04 PM  |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1                   | 7/20/2010 08:45 PM |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1                   | 6/9/2010 09:04 PM  |
| Xylenes, Total                 | ND     | H    |              | 0.0030 mg/Kg | 1                   | 7/20/2010 08:45 PM |
| Surr: 4-Bromofluorobenzene     | 111    |      |              | 75-131 %REC  | 1                   | 6/9/2010 09:04 PM  |
| Surr: 4-Bromofluorobenzene     | 96.7   |      |              | 75-131 %REC  | 1                   | 7/20/2010 08:45 PM |
| Surr: Trifluorotoluene         | 93.4   |      |              | 73-130 %REC  | 1                   | 7/20/2010 08:45 PM |
| Surr: Trifluorotoluene         | 99.8   |      |              | 73-130 %REC  | 1                   | 6/9/2010 09:04 PM  |
| <b>ANIONS</b>                  |        |      |              |              |                     |                    |
| Chloride                       | ND     |      | E300         | 4.96 mg/Kg   | Prep Date: 6/7/2010 | Analyst: IGF       |
| Surr: Selenate (surr)          | 98.3   |      | 85-115       | %REC         | 1                   | 6/8/2010 09:59 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006149

Sample ID: MW-26 90'

Lab ID: 1006149-09

Collection Date: 6/2/2010 09:50 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 03:21 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 03:21 AM  |
| Surr: 2-Fluorobiphenyl         | 71.2   |      | 70-130         | %REC  | 1                   | 6/8/2010 03:21 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/10/2010 10:05 PM |
| Surr: 4-Bromofluorobenzene     | 85.9   |      | 70-130         | %REC  | 1                   | 6/10/2010 10:05 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/9/2010 09:24 PM  |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/9/2010 09:24 PM  |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/9/2010 09:24 PM  |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/9/2010 09:24 PM  |
| Surr: 4-Bromofluorobenzene     | 108    |      | 75-131         | %REC  | 1                   | 6/9/2010 09:24 PM  |
| Surr: Trifluorotoluene         | 96.8   |      | 73-130         | %REC  | 1                   | 6/9/2010 09:24 PM  |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.99           | mg/Kg | 1                   | 6/8/2010 10:20 PM  |
| Surr: Selenate (surr)          | 98.4   |      | 85-115         | %REC  | 1                   | 6/8/2010 10:20 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Environmental

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-26 100'

Collection Date: 6/2/2010 10:00 AM

Work Order: 1006149

Lab ID: 1006149-10

Matrix: SOIL

| Analyses                       | Result        | Qual | Report Limit   | Units        | Dilution Factor     | Date Analyzed      |
|--------------------------------|---------------|------|----------------|--------------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8015M</b> |              | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND            |      | 1.7            | mg/Kg        | 1                   | 6/8/2010 03:41 AM  |
| TPH (Motor Oil Range)          | ND            |      | 3.4            | mg/Kg        | 1                   | 6/8/2010 03:41 AM  |
| Surr: 2-Fluorobiphenyl         | 76.2          |      | 70-130         | %REC         | 1                   | 6/8/2010 03:41 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8015</b>  |              |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND            |      | 0.050          | mg/Kg        | 1                   | 6/10/2010 10:27 PM |
| Surr: 4-Bromofluorobenzene     | 82.9          |      | 70-130         | %REC         | 1                   | 6/10/2010 10:27 PM |
| <b>BTEX</b>                    |               |      |                |              |                     |                    |
|                                |               |      | <b>SW8021B</b> |              |                     | Analyst: KKP       |
| Benzene                        | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 09:05 PM |
| Benzene                        | ND            |      | 0.0010         | mg/Kg        | 1                   | 6/9/2010 11:24 PM  |
| Toluene                        | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 09:05 PM |
| <b>Toluene</b>                 | <b>0.0013</b> |      | <b>0.0010</b>  | <b>mg/Kg</b> | 1                   | 6/9/2010 11:24 PM  |
| Ethylbenzene                   | ND            | H    | 0.0010         | mg/Kg        | 1                   | 7/20/2010 09:05 PM |
| Ethylbenzene                   | ND            |      | 0.0010         | mg/Kg        | 1                   | 6/9/2010 11:24 PM  |
| Xylenes, Total                 | ND            |      | 0.0030         | mg/Kg        | 1                   | 6/9/2010 11:24 PM  |
| Xylenes, Total                 | ND            | H    | 0.0030         | mg/Kg        | 1                   | 7/20/2010 09:05 PM |
| Surr: 4-Bromofluorobenzene     | 104           |      | 75-131         | %REC         | 1                   | 6/9/2010 11:24 PM  |
| Surr: 4-Bromofluorobenzene     | 93.6          |      | 75-131         | %REC         | 1                   | 7/20/2010 09:05 PM |
| Surr: Trifluorotoluene         | 94.2          |      | 73-130         | %REC         | 1                   | 7/20/2010 09:05 PM |
| Surr: Trifluorotoluene         | 96.7          |      | 73-130         | %REC         | 1                   | 6/9/2010 11:24 PM  |
| <b>ANIONS</b>                  |               |      |                |              |                     |                    |
|                                |               |      | <b>E300</b>    |              | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | ND            |      | 4.99           | mg/Kg        | 1                   | 6/8/2010 10:41 PM  |
| Surr: Selenate (surr)          | 99.5          |      | 85-115         | %REC         | 1                   | 6/8/2010 10:41 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006149

Sample ID: MW-26 110'

Lab ID: 1006149-11

Collection Date: 6/2/2010 10:20 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 04:00 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 04:00 AM  |
| Surr: 2-Fluorobiphenyl         | 79.1   |      | 70-130         | %REC  | 1                   | 6/8/2010 04:00 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/10/2010 11:59 PM |
| Surr: 4-Bromofluorobenzene     | 81.4   |      | 70-130         | %REC  | 1                   | 6/10/2010 11:59 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 12:24 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 12:24 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 12:24 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 12:24 AM |
| Surr: 4-Bromofluorobenzene     | 97.3   |      | 75-131         | %REC  | 1                   | 6/10/2010 12:24 AM |
| Surr: Trifluorotoluene         | 96.6   |      | 73-130         | %REC  | 1                   | 6/10/2010 12:24 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | 19.3   |      | 4.98           | mg/Kg | 1                   | 6/8/2010 11:03 PM  |
| Surr: Selenate (surr)          | 98.5   |      | 85-115         | %REC  | 1                   | 6/8/2010 11:03 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 01-Sep-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006149

Sample ID: MW-26 105'

Lab ID: 1006149-12

Collection Date: 6/2/2010 10:10 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor     | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|---------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/7/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                   | 6/8/2010 04:19 AM  |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                   | 6/8/2010 04:19 AM  |
| Surr: 2-Fluorobiphenyl         | 78.2   |      | 70-130         | %REC  | 1                   | 6/8/2010 04:19 AM  |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                     | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                   | 6/11/2010 12:21 AM |
| Surr: 4-Bromofluorobenzene     | 82.0   |      | 70-130         | %REC  | 1                   | 6/11/2010 12:21 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                     | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 12:44 AM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 12:44 AM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                   | 6/10/2010 12:44 AM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                   | 6/10/2010 12:44 AM |
| Surr: 4-Bromofluorobenzene     | 106    |      | 75-131         | %REC  | 1                   | 6/10/2010 12:44 AM |
| Surr: Trifluorotoluene         | 98.3   |      | 73-130         | %REC  | 1                   | 6/10/2010 12:44 AM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/7/2010 | Analyst: IGF       |
| Chloride                       | ND     |      | 4.95           | mg/Kg | 1                   | 6/8/2010 11:24 PM  |
| Surr: Selenate (surr)          | 98.7   |      | 85-115         | %REC  | 1                   | 6/8/2010 11:24 PM  |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Sep-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** Trip Blank 051710-37  
**Collection Date:** 6/2/2010

**Work Order:** 1006149  
**Lab ID:** 1006149-13  
**Matrix:** WATER

| Analyses                   | Result | Qual | Report<br>Limit | Units | Dilution<br>Factor | Date Analyzed     |
|----------------------------|--------|------|-----------------|-------|--------------------|-------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b>  |       |                    | Analyst: KKP      |
| Benzene                    | ND     |      | 0.0010          | mg/L  | 1                  | 6/4/2010 09:58 PM |
| Toluene                    | ND     |      | 0.0010          | mg/L  | 1                  | 6/4/2010 09:58 PM |
| Ethylbenzene               | ND     |      | 0.0010          | mg/L  | 1                  | 6/4/2010 09:58 PM |
| Xylenes, Total             | ND     |      | 0.0030          | mg/L  | 1                  | 6/4/2010 09:58 PM |
| Surr: 4-Bromofluorobenzene | 115    |      | 77-129          | %REC  | 1                  | 6/4/2010 09:58 PM |
| Surr: Trifluorotoluene     | 113    |      | 75-130          | %REC  | 1                  | 6/4/2010 09:58 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

## ALS Environmental

Date: 24-Aug-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**WorkOrder:** 1006149

## QUALIFIERS, ACRONYMS, UNITS

| <u>Qualifier</u> | <u>Description</u>                                                        |
|------------------|---------------------------------------------------------------------------|
| *                | Value exceeds Regulatory Limit                                            |
| a                | Not accredited                                                            |
| B                | Analyte detected in the associated Method Blank above the Reporting Limit |
| E                | Value above quantitation range                                            |
| H                | Analyzed outside of Holding Time                                          |
| J                | Analyte detected below quantitation limit                                 |
| M                | Manually integrated, see raw data for justification                       |
| n                | Not offered for accreditation                                             |
| ND               | Not Detected at the Reporting Limit                                       |
| O                | Sample amount is > 4 times amount spiked                                  |
| P                | Dual Column results percent difference > 40%                              |
| R                | RPD above laboratory control limit                                        |
| S                | Spike Recovery outside laboratory control limits                          |
| U                | Analyzed but not detected above the MDL                                   |

| <u>Acronym</u> | <u>Description</u>                  |
|----------------|-------------------------------------|
| DUP            | Method Duplicate                    |
| LCS            | Laboratory Control Sample           |
| LCSD           | Laboratory Control Sample Duplicate |
| MBLK           | Method Blank                        |
| MDL            | Method Detection Limit              |
| MQL            | Method Quantitation Limit           |
| MS             | Matrix Spike                        |
| MSD            | Matrix Spike Duplicate              |
| PDS            | Post Digestion Spike                |
| PQL            | Practical Quantitation Limit        |
| SD             | Serial Dilution                     |
| SDL            | Sample Detection Limit              |
| TRRP           | Texas Risk Reduction Program        |

| <u>Units Reported</u> | <u>Description</u>      |
|-----------------------|-------------------------|
| mg/Kg                 | Milligrams per Kilogram |
| mg/L                  | Milligrams per Liter    |

Client: Navajo Refining Company  
 Work Order: 1006149  
 Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: 43486 Instrument ID FID-7 Method: SW8015M

MBLK Sample ID: FBLKS1-100607-43486 Units: mg/Kg Analysis Date: 6/7/2010 11:10 PM

Client ID: Run ID: FID-7\_100607B SeqNo: 1996726 Prep Date: 6/7/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 2.776  | 0.10 | 3.33    |               | 0    | 83.4          | 70-130        | 0    |           |      |

LCS Sample ID: FLCSS1-100607-43486 Units: mg/Kg Analysis Date: 6/7/2010 11:29 PM

Client ID: Run ID: FID-7\_100607B SeqNo: 1996727 Prep Date: 6/7/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 35.56  | 1.7  | 33.33   |               | 0    | 107           | 70-130        | 0    |           |      |
| TPH (Motor Oil Range)  | 37.07  | 3.4  | 33.33   |               | 0    | 111           | 70-130        | 0    |           |      |
| Surr: 2-Fluorobiphenyl | 3.674  | 0.10 | 3.33    |               | 0    | 110           | 70-130        | 0    |           |      |

MS Sample ID: 1006149-12BMS Units: mg/Kg Analysis Date: 6/8/2010 04:39 AM

Client ID: MW-26 105' Run ID: FID-7\_100607B SeqNo: 1996742 Prep Date: 6/7/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 26.52  | 1.7  | 33.27   |               | 0    | 79.7          | 70-130        | 0    |           |      |
| TPH (Motor Oil Range)  | 27.94  | 3.4  | 33.27   | 0.2625        | 83.2 | 70-130        |               | 0    |           |      |
| Surr: 2-Fluorobiphenyl | 3.072  | 0.10 | 3.324   |               | 0    | 92.4          | 70-130        | 0    |           |      |

MSD Sample ID: 1006149-12BMSD Units: mg/Kg Analysis Date: 6/8/2010 04:00 AM

Client ID: MW-26 105' Run ID: FID-7\_100607B SeqNo: 1996743 Prep Date: 6/7/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| TPH (Diesel Range)     | 27.75  | 1.7  | 33.32   |               | 0    | 83.3          | 70-130        | 26.52 | 4.52      | 30   |
| TPH (Motor Oil Range)  | 30.01  | 3.4  | 33.32   | 0.2625        | 89.3 | 70-130        | 27.94         | 7.12  |           | 30   |
| Surr: 2-Fluorobiphenyl | 3.008  | 0.10 | 3.329   |               | 0    | 90.4          | 70-130        | 3.072 | 2.1       | 30   |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006149-01B | 1006149-02B | 1006149-03B |
| 1006149-04B | 1006149-05B | 1006149-06B |
| 1006149-07B | 1006149-08B | 1006149-09B |
| 1006149-10B | 1006149-11B | 1006149-12B |

Client: Navajo Refining Company  
 Work Order: 1006149  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R92013 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKW1-060410-R92013 Units: µg/L Analysis Date: 6/4/2010 04:36 PM

Client ID: Run ID: BTEX3\_100604A SeqNo: 1983431 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 35.78  | 1.0 | 30      | 0             | 119  | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 35.33  | 1.0 | 30      | 0             | 118  | 75-130        | 0             |      |           |      |

MBLK Sample ID: MEOHW1-060410-R92013 Units: µg/L Analysis Date: 6/4/2010 04:56 PM

Client ID: Run ID: BTEX3\_100604A SeqNo: 1983432 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 35.3   | 1.0 | 30      | 0             | 118  | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 33.88  | 1.0 | 30      | 0             | 113  | 75-130        | 0             |      |           |      |

LCS Sample ID: BLCSW1-060410-R92013 Units: µg/L Analysis Date: 6/4/2010 02:41 PM

Client ID: Run ID: BTEX3\_100604A SeqNo: 1988340 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.38  | 1.0 | 20      | 0             | 96.9 | 77-126        | 0             |      |           |      |
| Toluene                    | 19.18  | 1.0 | 20      | 0             | 95.9 | 80-124        | 0             |      |           |      |
| Ethylbenzene               | 19.59  | 1.0 | 20      | 0             | 98   | 76-125        | 0             |      |           |      |
| Xylenes, Total             | 57.56  | 3.0 | 60      | 0             | 95.9 | 79-124        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 34.36  | 1.0 | 30      | 0             | 115  | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 33.47  | 1.0 | 30      | 0             | 112  | 75-130        | 0             |      |           |      |

MS Sample ID: 1006099-01AMS Units: µg/L Analysis Date: 6/4/2010 09:19 PM

Client ID: Run ID: BTEX3\_100604A SeqNo: 1983442 Prep Date: DF: 10

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 203.4  | 10  | 200     | 0             | 102  | 77-126        | 0             |      |           |      |
| Toluene                    | 201.2  | 10  | 200     | 0             | 101  | 80-124        | 0             |      |           |      |
| Ethylbenzene               | 199.8  | 10  | 200     | 0             | 99.9 | 76-125        | 0             |      |           |      |
| Xylenes, Total             | 598.2  | 30  | 600     | 0             | 99.7 | 79-124        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 350.7  | 10  | 300     | 0             | 117  | 77-129        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 343    | 10  | 300     | 0             | 114  | 75-130        | 0             |      |           |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006149  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R92013 Instrument ID BTEX3 Method: SW8021B

MSD Sample ID: 1006099-01AMSD Units: µg/L Analysis Date: 6/4/2010 09:39 PM

Client ID: Run ID: BTEX3\_100604A SeqNo: 1983443 Prep Date: DF: 10

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 197.7  | 10  | 200     | 0             | 98.9 | 77-126        | 203.4         | 2.84  | 20        |      |
| Toluene                    | 195.8  | 10  | 200     | 0             | 97.9 | 80-124        | 201.2         | 2.73  | 20        |      |
| Ethylbenzene               | 197.1  | 10  | 200     | 0             | 98.5 | 76-125        | 199.8         | 1.39  | 20        |      |
| Xylenes, Total             | 589.4  | 30  | 600     | 0             | 98.2 | 79-124        | 598.2         | 1.49  | 20        |      |
| Surr: 4-Bromofluorobenzene | 352.7  | 10  | 300     | 0             | 118  | 77-129        | 350.7         | 0.583 | 20        |      |
| Surr: Trifluorotoluene     | 350.3  | 10  | 300     | 0             | 117  | 75-130        | 343           | 2.1   | 20        |      |

The following samples were analyzed in this batch:

1006149-13A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
Work Order: 1006149  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R92236 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-060910-R92236 Units: µg/Kg Analysis Date: 6/9/2010 10:34 AM  
Client ID: Run ID: BTEX3\_100609A SeqNo: 1988652 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.9   | 1.0 | 30      | 0             | 110  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.63  | 1.0 | 30      | 0             | 102  | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-060910-R92236 Units: µg/Kg Analysis Date: 6/9/2010 09:57 AM  
Client ID: Run ID: BTEX3\_100609A SeqNo: 1988651 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.77  | 1.0 | 20      | 0             | 104  | 74-129        | 0             |      |           |      |
| Toluene                    | 21.79  | 1.0 | 20      | 0             | 109  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.5   | 1.0 | 20      | 0             | 108  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 66.69  | 3.0 | 60      | 0             | 111  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 33.51  | 1.0 | 30      | 0             | 112  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.61  | 1.0 | 30      | 0             | 102  | 73-130        | 0             |      |           |      |

MS Sample ID: 1006174-01AMS Units: µg/Kg Analysis Date: 6/9/2010 05:11 PM  
Client ID: Run ID: BTEX3\_100609A SeqNo: 1988666 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 21.93  | 1.0 | 20      | 0             | 110  | 74-129        | 0             |      |           |      |
| Toluene                    | 21.21  | 1.0 | 20      | 0             | 106  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 22.83  | 1.0 | 20      | 0             | 114  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 69.56  | 3.0 | 60      | 0             | 116  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 35.55  | 1.0 | 30      | 0             | 118  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 32.02  | 1.0 | 30      | 0             | 107  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1006174-01AMSD Units: µg/Kg Analysis Date: 6/9/2010 05:40 PM  
Client ID: Run ID: BTEX3\_100609A SeqNo: 1988667 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 23.05  | 1.0 | 20      | 0             | 115  | 74-129        | 21.93         | 4.97 | 30        |      |
| Toluene                    | 25.18  | 1.0 | 20      | 0             | 126  | 75-128        | 21.21         | 17.1 | 30        |      |
| Ethylbenzene               | 22.53  | 1.0 | 20      | 0             | 113  | 73-127        | 22.83         | 1.3  | 30        |      |
| Xylenes, Total             | 70.97  | 3.0 | 60      | 0             | 118  | 74-127        | 69.56         | 2    | 30        |      |
| Surr: 4-Bromofluorobenzene | 33.07  | 1.0 | 30      | 0             | 110  | 75-131        | 35.55         | 7.22 | 30        |      |
| Surr: Trifluorotoluene     | 34.98  | 1.0 | 30      | 0             | 117  | 73-130        | 32.02         | 8.82 | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1006149  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R92236 Instrument ID BTEX3 Method: SW8021B

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006149-01A | 1006149-02A | 1006149-03A |
| 1006149-04A | 1006149-05A | 1006149-06A |
| 1006149-07A | 1006149-08A | 1006149-09A |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006149  
Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R92295 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061010-R92295 Units: µg/Kg Analysis Date: 6/9/2010 10:44 PM  
Client ID: Run ID: BTEX3\_100609B SeqNo: 1989983 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.32  | 1.0 | 30      | 0             | 97.7 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 29.07  | 1.0 | 30      | 0             | 96.9 | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-061010-R92295 Units: µg/Kg Analysis Date: 6/9/2010 10:04 PM  
Client ID: Run ID: BTEX3\_100609B SeqNo: 1989982 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.28  | 1.0 | 20      | 0             | 101  | 74-129        | 0             |      |           |      |
| Toluene                    | 21.36  | 1.0 | 20      | 0             | 107  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 20.91  | 1.0 | 20      | 0             | 105  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 63.96  | 3.0 | 60      | 0             | 107  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 31.48  | 1.0 | 30      | 0             | 105  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 29.03  | 1.0 | 30      | 0             | 96.8 | 73-130        | 0             |      |           |      |

MS Sample ID: 1006149-10AMS Units: µg/Kg Analysis Date: 6/9/2010 11:44 PM  
Client ID: MW-26 100' Run ID: BTEX3\_100609B SeqNo: 1989987 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.78  | 1.0 | 20      | 0             | 104  | 74-129        | 0             |      |           |      |
| Toluene                    | 21.38  | 1.0 | 20      | 1.279         | 100  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.44  | 1.0 | 20      | 0             | 107  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 65.23  | 3.0 | 60      | 0             | 109  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 31.64  | 1.0 | 30      | 0             | 105  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 29.62  | 1.0 | 30      | 0             | 98.7 | 73-130        | 0             |      |           |      |

MSD Sample ID: 1006149-10AMSD Units: µg/Kg Analysis Date: 6/10/2010 12:04 AM  
Client ID: MW-26 100' Run ID: BTEX3\_100609B SeqNo: 1989989 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 20.97  | 1.0 | 20      | 0             | 105  | 74-129        | 20.78         | 0.905 | 30        |      |
| Toluene                    | 21.41  | 1.0 | 20      | 1.279         | 101  | 75-128        | 21.38         | 0.156 | 30        |      |
| Ethylbenzene               | 21.2   | 1.0 | 20      | 0             | 106  | 73-127        | 21.44         | 1.12  | 30        |      |
| Xylenes, Total             | 64.13  | 3.0 | 60      | 0             | 107  | 74-127        | 65.23         | 1.7   | 30        |      |
| Surr: 4-Bromofluorobenzene | 31.71  | 1.0 | 30      | 0             | 106  | 75-131        | 31.64         | 0.209 | 30        |      |
| Surr: Trifluorotoluene     | 30.01  | 1.0 | 30      | 0             | 100  | 73-130        | 29.62         | 1.3   | 30        |      |

The following samples were analyzed in this batch:

1006149-10A 1006149-11A 1006149-12A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006149  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R92600 Instrument ID FID-9 Method: SW8015

|                            |        |                                |         |               |      |                |               |                                   |           |       |
|----------------------------|--------|--------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| MBLK                       |        | Sample ID: GBLKS-061010-R92600 |         |               |      | Units: mg/Kg   |               | Analysis Date: 6/10/2010 05:51 PM |           |       |
| Client ID:                 |        | Run ID: FID-9_100610D          |         |               |      | SeqNo: 1995719 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                            | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Gasoline Range Organics    | ND     | 0.050                          |         |               |      |                |               |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 0.0872 | 0.0050                         | 0.1     | 0             | 87.2 | 70-130         | 0             |                                   |           |       |

|                            |         |                                |         |               |      |                |               |                                   |           |       |
|----------------------------|---------|--------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| LCS                        |         | Sample ID: GLCSS-061010-R92600 |         |               |      | Units: mg/Kg   |               | Analysis Date: 6/10/2010 05:04 PM |           |       |
| Client ID:                 |         | Run ID: FID-9_100610D          |         |               |      | SeqNo: 1995717 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result  | PQL                            | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Gasoline Range Organics    | 1.081   | 0.050                          | 1       | 0             | 108  | 70-130         | 0             |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 0.08969 | 0.0050                         | 0.1     | 0             | 89.7 | 70-130         | 0             |                                   |           |       |

|                            |         |                                 |         |               |      |                |               |                                   |           |       |
|----------------------------|---------|---------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| LCSD                       |         | Sample ID: GLCSDS-061010-R92600 |         |               |      | Units: mg/Kg   |               | Analysis Date: 6/10/2010 05:28 PM |           |       |
| Client ID:                 |         | Run ID: FID-9_100610D           |         |               |      | SeqNo: 1995718 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result  | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Gasoline Range Organics    | 1.161   | 0.050                           | 1       | 0             | 116  | 70-130         | 1.081         | 7.17                              | 30        |       |
| Surr: 4-Bromofluorobenzene | 0.09016 | 0.0050                          | 0.1     | 0             | 90.2 | 70-130         | 0.08969       | 0.527                             | 30        |       |

|                            |         |                          |         |               |      |                |               |                                   |           |       |
|----------------------------|---------|--------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| MS                         |         | Sample ID: 1006149-10BMS |         |               |      | Units: mg/Kg   |               | Analysis Date: 6/10/2010 11:13 PM |           |       |
| Client ID: MW-26 100'      |         | Run ID: FID-9_100610D    |         |               |      | SeqNo: 1995732 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result  | PQL                      | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Gasoline Range Organics    | 1.103   | 0.050                    | 1       | 0             | 110  | 70-130         | 0             |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 0.08433 | 0.0050                   | 0.1     | 0             | 84.3 | 70-130         | 0             |                                   |           |       |

|                            |         |                           |         |               |      |                |               |                                   |           |       |
|----------------------------|---------|---------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| MSD                        |         | Sample ID: 1006149-10BMSD |         |               |      | Units: mg/Kg   |               | Analysis Date: 6/10/2010 11:36 PM |           |       |
| Client ID: MW-26 100'      |         | Run ID: FID-9_100610D     |         |               |      | SeqNo: 1995733 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result  | PQL                       | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Gasoline Range Organics    | 1.092   | 0.050                     | 1       | 0             | 109  | 70-130         | 1.103         | 0.97                              | 30        |       |
| Surr: 4-Bromofluorobenzene | 0.08751 | 0.0050                    | 0.1     | 0             | 87.5 | 70-130         | 0.08433       | 3.7                               | 30        |       |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006149-01B | 1006149-02B | 1006149-03B |
| 1006149-04B | 1006149-05B | 1006149-06B |
| 1006149-07B | 1006149-08B | 1006149-09B |
| 1006149-10B | 1006149-11B | 1006149-12B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006149  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R93104 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-062430-R93104 Units: µg/Kg Analysis Date: 6/24/2010 01:57 PM

Client ID: Run ID: BTEX3\_100624B SeqNo: 2006998 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 27.73  | 1.0 | 30      | 0             | 92.4 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 27.52  | 1.0 | 30      | 0             | 91.7 | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-062410-R93104 Units: µg/Kg Analysis Date: 6/24/2010 01:37 PM

Client ID: Run ID: BTEX3\_100624B SeqNo: 2006996 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 21.76  | 1.0 | 20      | 0             | 109  | 74-129        | 0             |      |           |      |
| Toluene                    | 21.5   | 1.0 | 20      | 0             | 107  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.25  | 1.0 | 20      | 0             | 106  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 65.04  | 3.0 | 60      | 0             | 108  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.04  | 1.0 | 30      | 0             | 100  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 29.37  | 1.0 | 30      | 0             | 97.9 | 73-130        | 0             |      |           |      |

MS Sample ID: 1006812-08AMS Units: µg/Kg Analysis Date: 6/24/2010 07:29 PM

Client ID: Run ID: BTEX3\_100624B SeqNo: 2007016 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.92  | 1.0 | 20      | 0             | 99.6 | 74-129        | 0             |      |           |      |
| Toluene                    | 19.38  | 1.0 | 20      | 0             | 96.9 | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 18.52  | 1.0 | 20      | 0             | 92.6 | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 56.29  | 3.0 | 60      | 0             | 93.8 | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 27.28  | 1.0 | 30      | 0             | 90.9 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 25.65  | 1.0 | 30      | 0             | 85.5 | 73-130        | 0             |      |           |      |

MSD Sample ID: 1006812-08AMSD Units: µg/Kg Analysis Date: 6/24/2010 07:49 PM

Client ID: Run ID: BTEX3\_100624B SeqNo: 2007017 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 19.57  | 1.0 | 20      | 0             | 97.9 | 74-129        | 19.92         | 1.75 | 30        |      |
| Toluene                    | 18     | 1.0 | 20      | 0             | 90   | 75-128        | 19.38         | 7.39 | 30        |      |
| Ethylbenzene               | 16.92  | 1.0 | 20      | 0             | 84.6 | 73-127        | 18.52         | 9.03 | 30        |      |
| Xylenes, Total             | 51.35  | 3.0 | 60      | 0             | 85.6 | 74-127        | 56.29         | 9.18 | 30        |      |
| Surr: 4-Bromofluorobenzene | 29.51  | 1.0 | 30      | 0             | 98.4 | 75-131        | 27.28         | 7.84 | 30        |      |
| Surr: Trifluorotoluene     | 28.07  | 1.0 | 30      | 0             | 93.6 | 73-130        | 25.65         | 9    | 30        |      |

The following samples were analyzed in this batch:

1006149-02A 1006149-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006149  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R94397 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-072010-R94397 Units: µg/Kg Analysis Date: 7/20/2010 12:01 PM  
 Client ID: Run ID: BTEX3\_100720A SeqNo: 2035224 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 28.49  | 1.0 | 30      | 0             | 95   | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 28.48  | 1.0 | 30      | 0             | 94.9 | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-072010-R94397 Units: µg/Kg Analysis Date: 7/20/2010 11:41 AM  
 Client ID: Run ID: BTEX3\_100720A SeqNo: 2035223 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.88  | 1.0 | 20      | 0             | 104  | 74-129        | 0             |      |           |      |
| Toluene                    | 20.48  | 1.0 | 20      | 0             | 102  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 17.84  | 1.0 | 20      | 0             | 89.2 | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 59.81  | 3.0 | 60      | 0             | 99.7 | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 29.51  | 1.0 | 30      | 0             | 98.4 | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 29.36  | 1.0 | 30      | 0             | 97.9 | 73-130        | 0             |      |           |      |

MS Sample ID: 1007421-06AMS Units: µg/Kg Analysis Date: 7/20/2010 01:26 PM  
 Client ID: Run ID: BTEX3\_100720A SeqNo: 2035227 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 12.4   | 1.0 | 20      | 0.5399        | 59.3 | 74-129        | 0             |      |           | S    |
| Toluene                    | 12.08  | 1.0 | 20      | 2.205         | 49.4 | 75-128        | 0             |      |           | S    |
| Ethylbenzene               | 14.46  | 1.0 | 20      | 2.804         | 58.3 | 73-127        | 0             |      |           | S    |
| Xylenes, Total             | 39.72  | 3.0 | 60      | 11.55         | 47   | 74-127        | 0             |      |           | S    |
| Surr: 4-Bromofluorobenzene | 30.26  | 1.0 | 30      | 0             | 101  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 28.08  | 1.0 | 30      | 0             | 93.6 | 73-130        | 0             |      |           |      |

MSD Sample ID: 1007421-06AMSD Units: µg/Kg Analysis Date: 7/20/2010 01:46 PM  
 Client ID: Run ID: BTEX3\_100720A SeqNo: 2035228 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 11.45  | 1.0 | 20      | 0.5399        | 54.5 | 74-129        | 12.4          | 8.02 | 30        | S    |
| Toluene                    | 10.59  | 1.0 | 20      | 2.205         | 41.9 | 75-128        | 12.08         | 13.2 | 30        | S    |
| Ethylbenzene               | 12.18  | 1.0 | 20      | 2.804         | 46.9 | 73-127        | 14.46         | 17.1 | 30        | S    |
| Xylenes, Total             | 36.34  | 3.0 | 60      | 11.55         | 41.3 | 74-127        | 39.72         | 8.88 | 30        | S    |
| Surr: 4-Bromofluorobenzene | 29.17  | 1.0 | 30      | 0             | 97.2 | 75-131        | 30.26         | 3.66 | 30        |      |
| Surr: Trifluorotoluene     | 27.78  | 1.0 | 30      | 0             | 92.6 | 73-130        | 28.08         | 1.06 | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006149  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R94397

Instrument ID BTEX3

Method: SW8021B

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006149-02A | 1006149-03A | 1006149-04A |
| 1006149-05A | 1006149-06A | 1006149-07A |
| 1006149-08A | 1006149-10A |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006149  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: 43543 Instrument ID ICS3000 Method: E300

LCS Sample ID: WLCSS1-060710-43543 Units: mg/Kg Analysis Date: 6/8/2010 02:50 PM  
 Client ID: Run ID: ICS3000\_100608A SeqNo: 2004104 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 195.9  | 5.0 | 200     | 0             | 98   | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 48.63  | 1.0 | 50      | 0             | 97.3 | 85-115        | 0             |      |           |      |

MS Sample ID: 1006149-01BMS Units: mg/Kg Analysis Date: 6/8/2010 06:25 PM  
 Client ID: MW-26 10' Run ID: ICS3000\_100608A SeqNo: 2004106 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 99.73  | 5.0  | 99.4    | 4.056         | 96.2 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 48.93  | 0.99 | 49.7    | 0             | 98.4 | 80-120        | 0             |      |           |      |

MS Sample ID: 1006149-12BMS Units: mg/Kg Analysis Date: 6/8/2010 11:45 PM  
 Client ID: MW-26 105' Run ID: ICS3000\_100608A SeqNo: 2004121 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 99.6   | 5.0  | 99.01   | 2.703         | 97.9 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 49.28  | 0.99 | 49.5    | 0             | 99.5 | 80-120        | 0             |      |           |      |

MSD Sample ID: 1006149-01BMSD Units: mg/Kg Analysis Date: 6/8/2010 06:47 PM  
 Client ID: MW-26 10' Run ID: ICS3000\_100608A SeqNo: 2004107 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD   | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|--------|-----------|------|
| Chloride              | 99.82  | 5.0  | 99.4    | 4.056         | 96.3 | 75-125        | 99.73         | 0.0897 | 20        |      |
| Surr: Selenate (surr) | 49.02  | 0.99 | 49.7    | 0             | 98.6 | 80-120        | 48.93         | 0.183  | 20        |      |

MSD Sample ID: 1006149-12BMSD Units: mg/Kg Analysis Date: 6/9/2010 12:07 AM  
 Client ID: MW-26 105' Run ID: ICS3000\_100608A SeqNo: 2004122 Prep Date: 6/7/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Chloride              | 99.71  | 5.0  | 99.01   | 2.703         | 98   | 75-125        | 99.6          | 0.109 | 20        |      |
| Surr: Selenate (surr) | 49.18  | 0.99 | 49.5    | 0             | 99.3 | 80-120        | 49.28         | 0.201 | 20        |      |

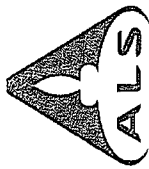
The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006149-01B | 1006149-02B | 1006149-03B |
| 1006149-04B | 1006149-05B | 1006149-06B |
| 1006149-07B | 1006149-08B | 1006149-09B |
| 1006149-10B | 1006149-11B | 1006149-12B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.







ALS Laboratory Group  
10450 Stancil Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
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## Chain of Custody Form

ALS Laboratory Group

3352 128th Ave.  
Holland, MI 49424-9263  
Tel: +1 616 399 6070  
Fax: +1 616 399 6185

Page 2 of 2

| Customer Information |                        |        |      | Project Information     |       |           |   | ALS Project Manager: [Signature]      |   |   |   |   |   |   |   |   |      |  |  | ALS Work Order #: 10019 |  |  |  |  |  |  |  |  |  |  |  |
|----------------------|------------------------|--------|------|-------------------------|-------|-----------|---|---------------------------------------|---|---|---|---|---|---|---|---|------|--|--|-------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Project Name         |                        |        |      | Lea Refinery New Wells  |       |           |   | Parameter/Method Request for Analysis |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Project Number       |                        |        |      | NAV-10-003              |       |           |   | BTEX (80021)                          |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Bill To Company      |                        |        |      | Navajo Refining Company |       |           |   | GRO (8015M)                           |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Invoice Attn         |                        |        |      | Darrell Moore           |       |           |   | DRO (8015M)                           |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Address              |                        |        |      | P.O. Box 159            |       |           |   | ORO (8015M)                           |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| City/State/Zip       |                        |        |      | Artesia, NM 88211       |       |           |   | Anions (300) Cl                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Phone                |                        |        |      | (505) 748-3311          |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Fax                  |                        |        |      | (505) 746-5421          |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| e-Mail Address       |                        |        |      | dgboyer@SESI-NM.com     |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| No.                  | Sample Description     | Date   | Time | Matrix                  | Pres. | # Bottles | A | B                                     | C | D | E | F | G | H | I | J | Hold |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 1                    | MW-26 110'             | 6/2/10 | 1020 | Soil                    | B     | 2         | X | X                                     | X | X | X |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 2                    | MW-26 105'             | 6/2/10 | 1010 | Soil                    | B     | 2         | X | X                                     | X | X | X |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 3                    | IRip Blank R 051310-37 | -      | 1130 |                         |       | 2         | X |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 4                    |                        |        |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 5                    |                        |        |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 6                    |                        |        |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 7                    |                        |        |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 8                    |                        |        |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 9                    |                        |        |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 10                   |                        |        |      |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |

| Sampler(s) Please Print & Sign:                                                                                                                                            |  | Shipment Method                      |  | Required Turnaround Time (Check Box) |  | Results Due Date:                |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------|--|--------------------------------------|--|----------------------------------|--|
| [Signature]                                                                                                                                                                |  | Fed Ex                               |  | Other (Specify):                     |  | 10 Day TAT. Co Dave Boyer        |  |
| Relinquished by: [Signature]                                                                                                                                               |  | Date: 6/3/10                         |  | Time: 1715                           |  | Notes: 10 Day TAT. Co Dave Boyer |  |
| Relinquished by: [Signature]                                                                                                                                               |  | Date: 6/3/10                         |  | Time: 1715                           |  | Notes: 10 Day TAT. Co Dave Boyer |  |
| Logged by (Laboratory): [Signature]                                                                                                                                        |  | Date: 6/3/10                         |  | Time: 1715                           |  | Cooler ID: 320                   |  |
| Preservative Key: 1-HCl, 2-HNO <sub>3</sub> , 3-H <sub>2</sub> SO <sub>4</sub> , 4-NaOH, 5-Na <sub>2</sub> SO <sub>3</sub> , 6-NaHSO <sub>3</sub> , 7-Other: 8-4°C, 9-5035 |  | Checked by (Laboratory): [Signature] |  | Date: 6/3/10                         |  | Time: 1715                       |  |
| QC Package: (Check One Box Below)                                                                                                                                          |  | Cooler Temp:                         |  | Level II Std QC                      |  | Level III Std QC                 |  |
| Level II Std QC                                                                                                                                                            |  | Level II Std QC                      |  | Level III Std QC                     |  | Level IV SWB46/CLP               |  |
| Level III Std QC                                                                                                                                                           |  | Level III Std QC                     |  | Level IV SWB46/CLP                   |  | Other                            |  |
| Level IV SWB46/CLP                                                                                                                                                         |  | Level IV SWB46/CLP                   |  | Other                                |  | Other                            |  |

## Sample Receipt Checklist

Client Name: NAVAJO REFININGDate/Time Received: 04-Jun-10 08:55Work Order: 1006149Received by: RSZChecklist completed by Robert D. Harris  
eSignature04-Jun-10  
Date

Reviewed by:

eSignature

Date

Matrices: soilsCarrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒No ☐Not Present ☐

Custody seals intact on sample bottles?

Yes ☐No ☐Not Present ☒

Chain of custody present?

Yes ☒No ☐

Chain of custody signed when relinquished and received?

Yes ☒No ☐

Chain of custody agrees with sample labels?

Yes ☒No ☐

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☒No ☐

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Temperature(s)/Thermometer(s):

1.6c, 1.2c002

Cooler(s)/Kit(s):

3290, 1827

Water - VOA vials have zero headspace?

Yes ☒No ☐No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☐No ☐N/A ☒

pH adjusted?

Yes ☐No ☐N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

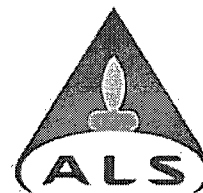
Regarding:

Comments:

CorrectiveAction:

# ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



## Environmental Division

23-Jun-2010

Darrell Moore  
Navajo Refining Company  
PO Box 159  
Artesia, NM 88211

Tel: (575) 748-6733  
Fax: (575) 746-5421

Re: Lea Refinery New Wells

Work Order: 1006296

Dear Darrell,

ALS Laboratory Group received 35 samples on 09-Jun-2010 08:50 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 63.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Tiffany Van

JayLynn F Thibault  
Project Manager



Certificate No: T104704231-09A-TX

## ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

[www.alsglobal.com](http://www.alsglobal.com) [www.elabi.com](http://www.elabi.com)

A Campbell Brothers Limited Company

**ALS Laboratory Group**

Date: 23-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Work Order:** 1006296

**Work Order Sample Summary**

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1006296-01         | MW-25 10'               | Soil          |                   | 6/4/2010 11:20         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-02         | MW-25 20'               | Soil          |                   | 6/4/2010 11:30         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-03         | MW-25 30'               | Soil          |                   | 6/4/2010 11:40         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-04         | MW-25 40'               | Soil          |                   | 6/4/2010 11:50         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-05         | MW-25 50'               | Soil          |                   | 6/4/2010 12:40         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-06         | MW-25 60'               | Soil          |                   | 6/4/2010 12:50         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-07         | MW-25 70'               | Soil          |                   | 6/4/2010 13:00         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-08         | MW-25 80'               | Soil          |                   | 6/4/2010 13:05         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-09         | MW-25 90'               | Soil          |                   | 6/4/2010 13:15         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-10         | MW-25 100'              | Soil          |                   | 6/4/2010 13:25         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-11         | MW-25 105'              | Soil          |                   | 6/4/2010 13:30         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-12         | MW-25 110'              | Soil          |                   | 6/4/2010 13:35         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-13         | MW-27 10'               | Soil          |                   | 6/5/2010 08:50         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-14         | MW-27 20'               | Soil          |                   | 6/5/2010 09:00         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-15         | MW-27 30'               | Soil          |                   | 6/5/2010 09:05         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-16         | MW-27 40'               | Soil          |                   | 6/5/2010 09:15         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-17         | MW-27 50'               | Soil          |                   | 6/5/2010 09:35         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-18         | MW-27 60'               | Soil          |                   | 6/5/2010 09:45         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-19         | MW-27 70'               | Soil          |                   | 6/5/2010 10:10         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-20         | MW-27 80'               | Soil          |                   | 6/5/2010 10:20         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-21         | MW-27 90'               | Soil          |                   | 6/5/2010 10:30         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-22         | MW-27 100'              | Soil          |                   | 6/5/2010 10:40         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-23         | MW-27 105'              | Soil          |                   | 6/5/2010 10:50         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-24         | MW-29 10'               | Soil          |                   | 6/5/2010 15:05         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-25         | MW-29 20'               | Soil          |                   | 6/5/2010 15:30         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-26         | MW-29 30'               | Soil          |                   | 6/5/2010 15:45         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-27         | MW-29 40'               | Soil          |                   | 6/6/2010 06:40         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-28         | MW-29 50'               | Soil          |                   | 6/6/2010 06:50         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-29         | MW-29 60'               | Soil          |                   | 6/6/2010 07:00         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-30         | MW-29 70'               | Soil          |                   | 6/6/2010 07:10         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-31         | MW-29 80'               | Soil          |                   | 6/6/2010 07:15         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-32         | MW-29 90'               | Soil          |                   | 6/6/2010 10:20         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-33         | MW-29 100'              | Soil          |                   | 6/6/2010 10:30         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-34         | MW-29 105'              | Soil          |                   | 6/6/2010 10:45         | 6/9/2010 08:50       | <input type="checkbox"/> |
| 1006296-35         | Trip Blank-052410-17    | Water         |                   | 6/6/2010               | 6/9/2010 08:50       | <input type="checkbox"/> |

## ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

### Case Narrative

Batch R92562, Method BTEX\_W, Sample BLCSW1-061410: Lowest practical dilution for 1006336-14A, 15A & 1006261-01A due to matrix.

**ALS Laboratory Group**

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-25 10'

Lab ID: 1006296-01

Collection Date: 6/4/2010 11:20 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 03:53 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 03:53 PM |
| Surr: 2-Fluorobiphenyl         | 75.3   |      | 70-130         | %REC  | 1                    | 6/12/2010 03:53 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 03:15 PM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 70-130         | %REC  | 1                    | 6/18/2010 03:15 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 12:31 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 12:31 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 12:31 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/14/2010 12:31 PM |
| Surr: 4-Bromofluorobenzene     | 104    |      | 75-131         | %REC  | 1                    | 6/14/2010 12:31 PM |
| Surr: Trifluorotoluene         | 99.2   |      | 73-130         | %REC  | 1                    | 6/14/2010 12:31 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 4.99           | mg/Kg | 1                    | 6/21/2010 01:02 PM |
| Surr: Selenate (surr)          | 9.76   | S    | 85-115         | %REC  | 1                    | 6/21/2010 01:02 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company  
Project: Lea Refinery New Wells  
Sample ID: MW-25 20'  
Collection Date: 6/4/2010 11:30 AM

Work Order: 1006296  
Lab ID: 1006296-02  
Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 04:12 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 04:12 PM |
| Surr: 2-Fluorobiphenyl         | 70.7   |      | 70-130         | %REC  | 1                    | 6/12/2010 04:12 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 03:39 PM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 70-130         | %REC  | 1                    | 6/18/2010 03:39 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 12:51 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 12:51 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 12:51 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/14/2010 12:51 PM |
| Surr: 4-Bromofluorobenzene     | 112    |      | 75-131         | %REC  | 1                    | 6/14/2010 12:51 PM |
| Surr: Trifluorotoluene         | 98.0   |      | 73-130         | %REC  | 1                    | 6/14/2010 12:51 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 5.00           | mg/Kg | 1                    | 6/21/2010 02:22 PM |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                    | 6/21/2010 02:22 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 23-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-25 30'  
**Collection Date:** 6/4/2010 11:40 AM

**Work Order:** 1006296  
**Lab ID:** 1006296-03  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 04:31 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 04:31 PM |
| Surr: 2-Fluorobiphenyl         | 90.7   |      | 70-130         | %REC  | 1                    | 6/12/2010 04:31 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/17/2010 11:38 PM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 70-130         | %REC  | 1                    | 6/17/2010 11:38 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 01:11 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 01:11 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 01:11 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/14/2010 01:11 PM |
| Surr: 4-Bromofluorobenzene     | 107    |      | 75-131         | %REC  | 1                    | 6/14/2010 01:11 PM |
| Surr: Trifluorotoluene         | 98.5   |      | 73-130         | %REC  | 1                    | 6/14/2010 01:11 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 4.99           | mg/Kg | 1                    | 6/21/2010 02:36 PM |
| Surr: Selenate (surr)          | 96.0   |      | 85-115         | %REC  | 1                    | 6/21/2010 02:36 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-25 40'

Lab ID: 1006296-04

Collection Date: 6/4/2010 11:50 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 05:30 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 05:30 PM |
| Surr: 2-Fluorobiphenyl         | 90.0   |      | 70-130         | %REC  | 1                    | 6/12/2010 05:30 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 01:11 AM |
| Surr: 4-Bromofluorobenzene     | 106    |      | 70-130         | %REC  | 1                    | 6/18/2010 01:11 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 01:31 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 01:31 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 01:31 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/14/2010 01:31 PM |
| Surr: 4-Bromofluorobenzene     | 114    |      | 75-131         | %REC  | 1                    | 6/14/2010 01:31 PM |
| Surr: Trifluorotoluene         | 99.9   |      | 73-130         | %REC  | 1                    | 6/14/2010 01:31 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 6.95   |      | 4.94           | mg/Kg | 1                    | 6/21/2010 02:51 PM |
| Surr: Selenate (surr)          | 99.0   |      | 85-115         | %REC  | 1                    | 6/21/2010 02:51 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-25 50'

Collection Date: 6/4/2010 12:40 PM

Work Order: 1006296

Lab ID: 1006296-05

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 05:49 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 05:49 PM |
| Surr: 2-Fluorobiphenyl         | 80.7   |      | 70-130         | %REC  | 1                    | 6/12/2010 05:49 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 01:34 AM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 70-130         | %REC  | 1                    | 6/18/2010 01:34 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 01:51 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 01:51 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 01:51 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/14/2010 01:51 PM |
| Surr: 4-Bromofluorobenzene     | 112    |      | 75-131         | %REC  | 1                    | 6/14/2010 01:51 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 6/14/2010 01:51 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 6.56   |      | 5.00           | mg/Kg | 1                    | 6/21/2010 03:35 PM |
| Surr: Selenate (surr)          | 96.0   |      | 85-115         | %REC  | 1                    | 6/21/2010 03:35 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-25 60'

Collection Date: 6/4/2010 12:50 PM

Work Order: 1006296

Lab ID: 1006296-06

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 06:08 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 06:08 PM |
| Surr: 2-Fluorobiphenyl         | 84.7   |      | 70-130         | %REC  | 1                    | 6/12/2010 06:08 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 01:57 AM |
| Surr: 4-Bromofluorobenzene     | 106    |      | 70-130         | %REC  | 1                    | 6/18/2010 01:57 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 03:27 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 03:27 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 03:27 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/14/2010 03:27 PM |
| Surr: 4-Bromofluorobenzene     | 113    |      | 75-131         | %REC  | 1                    | 6/14/2010 03:27 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                    | 6/14/2010 03:27 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 7.16   |      | 4.98           | mg/Kg | 1                    | 6/21/2010 03:49 PM |
| Surr: Selenate (surr)          | 99.0   |      | 85-115         | %REC  | 1                    | 6/21/2010 03:49 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-25 70'

Collection Date: 6/4/2010 01:00 PM

Work Order: 1006296

Lab ID: 1006296-07

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 06:28 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 06:28 PM |
| Surr: 2-Fluorobiphenyl         | 78.1   |      | 70-130         | %REC  | 1                    | 6/12/2010 06:28 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 02:21 AM |
| Surr: 4-Bromofluorobenzene     | 106    |      | 70-130         | %REC  | 1                    | 6/18/2010 02:21 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 03:47 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 03:47 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 03:47 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/14/2010 03:47 PM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 75-131         | %REC  | 1                    | 6/14/2010 03:47 PM |
| Surr: Trifluorotoluene         | 99.1   |      | 73-130         | %REC  | 1                    | 6/14/2010 03:47 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 8.43   |      | 5.00           | mg/Kg | 1                    | 6/21/2010 04:04 PM |
| Surr: Selenate (surr)          | 98.4   |      | 85-115         | %REC  | 1                    | 6/21/2010 04:04 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-25 80'

Lab ID: 1006296-08

Collection Date: 6/4/2010 01:05 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 06:47 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 06:47 PM |
| Surr: 2-Fluorobiphenyl         | 96.8   |      | 70-130         | %REC  | 1                    | 6/12/2010 06:47 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 02:44 AM |
| Surr: 4-Bromofluorobenzene     | 103    |      | 70-130         | %REC  | 1                    | 6/18/2010 02:44 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 04:07 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 04:07 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 04:07 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/14/2010 04:07 PM |
| Surr: 4-Bromofluorobenzene     | 114    |      | 75-131         | %REC  | 1                    | 6/14/2010 04:07 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                    | 6/14/2010 04:07 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 6.05   |      | 5.00           | mg/Kg | 1                    | 6/21/2010 05:07 PM |
| Surr: Selenate (surr)          | 107    |      | 85-115         | %REC  | 1                    | 6/21/2010 05:07 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-25 90'  
**Collection Date:** 6/4/2010 01:15 PM

**Work Order:** 1006296  
**Lab ID:** 1006296-09  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 07:07 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 07:07 PM |
| Surr: 2-Fluorobiphenyl         | 98.1   |      | 70-130         | %REC  | 1                    | 6/12/2010 07:07 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 03:07 AM |
| Surr: 4-Bromofluorobenzene     | 104    |      | 70-130         | %REC  | 1                    | 6/18/2010 03:07 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 04:27 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 04:27 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 04:27 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/14/2010 04:27 PM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 75-131         | %REC  | 1                    | 6/14/2010 04:27 PM |
| Surr: Trifluorotoluene         | 104    |      | 73-130         | %REC  | 1                    | 6/14/2010 04:27 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 4.91           | mg/Kg | 1                    | 6/21/2010 04:33 PM |
| Surr: Selenate (surr)          | 98.6   |      | 85-115         | %REC  | 1                    | 6/21/2010 04:33 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-25 100'

Lab ID: 1006296-10

Collection Date: 6/4/2010 01:25 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 07:26 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 07:26 PM |
| Surr: 2-Fluorobiphenyl         | 85.3   |      | 70-130         | %REC  | 1                    | 6/12/2010 07:26 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 04:02 PM |
| Surr: 4-Bromofluorobenzene     | 100    |      | 70-130         | %REC  | 1                    | 6/18/2010 04:02 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 04:47 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 04:47 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 04:47 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/14/2010 04:47 PM |
| Surr: 4-Bromofluorobenzene     | 111    |      | 75-131         | %REC  | 1                    | 6/14/2010 04:47 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                    | 6/14/2010 04:47 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 5.36   |      | 5.00           | mg/Kg | 1                    | 6/21/2010 04:47 PM |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/21/2010 04:47 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-25 105'

Lab ID: 1006296-11

Collection Date: 6/4/2010 01:30 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 07:45 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 07:45 PM |
| Surr: 2-Fluorobiphenyl         | 83.7   |      | 70-130         | %REC  | 1                    | 6/12/2010 07:45 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 04:26 PM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 70-130         | %REC  | 1                    | 6/18/2010 04:26 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 05:07 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 05:07 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 05:07 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/14/2010 05:07 PM |
| Surr: 4-Bromofluorobenzene     | 109    |      | 75-131         | %REC  | 1                    | 6/14/2010 05:07 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 6/14/2010 05:07 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 6.40   |      | 4.98           | mg/Kg | 1                    | 6/21/2010 05:41 PM |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                    | 6/21/2010 05:41 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-25 110'

Collection Date: 6/4/2010 01:35 PM

Work Order: 1006296

Lab ID: 1006296-12

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 08:05 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 08:05 PM |
| Surr: 2-Fluorobiphenyl         | 77.7   |      | 70-130         | %REC  | 1                    | 6/12/2010 08:05 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 05:27 AM |
| Surr: 4-Bromofluorobenzene     | 109    |      | 70-130         | %REC  | 1                    | 6/18/2010 05:27 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 05:27 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 05:27 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/14/2010 05:27 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/14/2010 05:27 PM |
| Surr: 4-Bromofluorobenzene     | 108    |      | 75-131         | %REC  | 1                    | 6/14/2010 05:27 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/14/2010 05:27 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 37.9   |      | 4.99           | mg/Kg | 1                    | 6/21/2010 06:33 PM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/21/2010 06:33 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-27 10'

Lab ID: 1006296-13

Collection Date: 6/5/2010 08:50 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor | Date Analyzed                                           |
|--------------------------------|--------|------|--------------|--------------|-----------------|---------------------------------------------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                 |                                                         |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 8.5 mg/Kg    | 5               | Prep Date: 6/10/2010 Analyst: KMB<br>6/23/2010 11:23 AM |
| TPH (Motor Oil Range)          | 130    |      |              | 17 mg/Kg     | 5               | 6/23/2010 11:23 AM                                      |
| Surr: 2-Fluorobiphenyl         | 90.5   |      |              | 70-130 %REC  | 5               | 6/23/2010 11:23 AM                                      |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                 |                                                         |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1               | Analyst: KKP<br>6/18/2010 05:50 AM                      |
| Surr: 4-Bromofluorobenzene     | 110    |      |              | 70-130 %REC  | 1               | 6/18/2010 05:50 AM                                      |
| <b>BTEX</b>                    |        |      |              |              |                 |                                                         |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1               | Analyst: KKP<br>6/14/2010 05:47 PM                      |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1               | 6/14/2010 05:47 PM                                      |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1               | 6/14/2010 05:47 PM                                      |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1               | 6/14/2010 05:47 PM                                      |
| Surr: 4-Bromofluorobenzene     | 113    |      |              | 75-131 %REC  | 1               | 6/14/2010 05:47 PM                                      |
| Surr: Trifluorotoluene         | 100    |      |              | 73-130 %REC  | 1               | 6/14/2010 05:47 PM                                      |
| <b>ANIONS</b>                  |        |      |              |              |                 |                                                         |
| Chloride                       | 6.51   |      | E300         | 5.00 mg/Kg   | 1               | Prep Date: 6/10/2010 Analyst: DM<br>6/21/2010 06:10 PM  |
| Surr: Selenate (surr)          | 101    |      |              | 85-115 %REC  | 1               | 6/21/2010 06:10 PM                                      |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-27 20'

Collection Date: 6/5/2010 09:00 AM

Work Order: 1006296

Lab ID: 1006296-14

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|--------------|--------------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                      |                    |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | Prep Date: 6/10/2010 | Analyst: KMB       |
|                                |        |      |              |              | 1                    | 6/12/2010 08:05 PM |
| TPH (Motor Oil Range)          | 22     |      | 3.4 mg/Kg    |              | 1                    | 6/12/2010 08:05 PM |
| Surr: 2-Fluorobiphenyl         | 76.5   |      | 70-130 %REC  |              | 1                    | 6/12/2010 08:05 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                      |                    |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1                    | Analyst: KKP       |
| Surr: 4-Bromofluorobenzene     | 107    |      | 70-130 %REC  |              | 1                    | 6/18/2010 06:13 AM |
| <b>BTEX</b>                    |        |      |              |              |                      |                    |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1                    | Analyst: KKP       |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1                    | 6/14/2010 06:07 PM |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1                    | 6/14/2010 06:07 PM |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1                    | 6/14/2010 06:07 PM |
| Surr: 4-Bromofluorobenzene     | 111    |      | 75-131 %REC  |              | 1                    | 6/14/2010 06:07 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130 %REC  |              | 1                    | 6/14/2010 06:07 PM |
| <b>ANIONS</b>                  |        |      |              |              |                      |                    |
| Chloride                       | 8.24   |      | E300         | 4.91 mg/Kg   | Prep Date: 6/10/2010 | Analyst: DM        |
| Surr: Selenate (surr)          | 99.5   |      | 85-115 %REC  |              | 1                    | 6/21/2010 06:47 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-27 30'

Lab ID: 1006296-15

Collection Date: 6/5/2010 09:05 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 08:24 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 08:24 PM |
| Surr: 2-Fluorobiphenyl         | 70.5   |      | 70-130         | %REC  | 1                    | 6/12/2010 08:24 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 06:37 AM |
| Surr: 4-Bromofluorobenzene     | 107    |      | 70-130         | %REC  | 1                    | 6/18/2010 06:37 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/15/2010 08:20 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/15/2010 08:20 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/15/2010 08:20 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/15/2010 08:20 PM |
| Surr: 4-Bromofluorobenzene     | 109    |      | 75-131         | %REC  | 1                    | 6/15/2010 08:20 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                    | 6/15/2010 08:20 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 17.3   |      | 5.00           | mg/Kg | 1                    | 6/22/2010 09:15 AM |
| Surr: Selenate (surr)          | 112    |      | 85-115         | %REC  | 1                    | 6/22/2010 09:15 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-27 40'

Lab ID: 1006296-16

Collection Date: 6/5/2010 09:15 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor | Date Analyzed                                           |
|--------------------------------|--------|------|--------------|--------------|-----------------|---------------------------------------------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                 |                                                         |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | 1               | Prep Date: 6/10/2010 Analyst: KMB<br>6/12/2010 08:43 PM |
| TPH (Motor Oil Range)          | 30     |      | 3.4 mg/Kg    |              | 1               | 6/12/2010 08:43 PM                                      |
| Surr: 2-Fluorobiphenyl         | 70.5   |      | 70-130 %REC  |              | 1               | 6/12/2010 08:43 PM                                      |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                 |                                                         |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1               | Analyst: KKP<br>6/18/2010 07:00 AM                      |
| Surr: 4-Bromofluorobenzene     | 109    |      | 70-130 %REC  |              | 1               | 6/18/2010 07:00 AM                                      |
| <b>BTEX</b>                    |        |      |              |              |                 |                                                         |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1               | Analyst: KKP<br>6/15/2010 08:40 PM                      |
| Toluene                        | ND     |      | 0.0010 mg/Kg |              | 1               | 6/15/2010 08:40 PM                                      |
| Ethylbenzene                   | ND     |      | 0.0010 mg/Kg |              | 1               | 6/15/2010 08:40 PM                                      |
| Xylenes, Total                 | ND     |      | 0.0030 mg/Kg |              | 1               | 6/15/2010 08:40 PM                                      |
| Surr: 4-Bromofluorobenzene     | 113    |      | 75-131 %REC  |              | 1               | 6/15/2010 08:40 PM                                      |
| Surr: Trifluorotoluene         | 102    |      | 73-130 %REC  |              | 1               | 6/15/2010 08:40 PM                                      |
| <b>ANIONS</b>                  |        |      |              |              |                 |                                                         |
| Chloride                       | 11.2   |      | E300         | 5.00 mg/Kg   | 1               | Prep Date: 6/10/2010 Analyst: DM<br>6/21/2010 07:45 PM  |
| Surr: Selenate (surr)          | 98.8   |      | 85-115 %REC  |              | 1               | 6/21/2010 07:45 PM                                      |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 23-Jun-10

**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**Sample ID:** MW-27 50'  
**Collection Date:** 6/5/2010 09:35 AM

**Work Order:** 1006296  
**Lab ID:** 1006296-17  
**Matrix:** SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 09:41 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 09:41 PM |
| Surr: 2-Fluorobiphenyl         | 71.8   |      | 70-130         | %REC  | 1                    | 6/12/2010 09:41 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 07:23 AM |
| Surr: 4-Bromofluorobenzene     | 108    |      | 70-130         | %REC  | 1                    | 6/18/2010 07:23 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/15/2010 09:00 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/15/2010 09:00 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/15/2010 09:00 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/15/2010 09:00 PM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 75-131         | %REC  | 1                    | 6/15/2010 09:00 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                    | 6/15/2010 09:00 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 12.3   |      | 4.98           | mg/Kg | 1                    | 6/22/2010 11:07 AM |
| Surr: Selenate (surr)          | 98.6   |      | 85-115         | %REC  | 1                    | 6/22/2010 11:07 AM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-27 60'

Lab ID: 1006296-18

Collection Date: 6/5/2010 09:45 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 10:01 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 10:01 PM |
| Surr: 2-Fluorobiphenyl         | 87.7   |      | 70-130         | %REC  | 1                    | 6/12/2010 10:01 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 07:47 AM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 70-130         | %REC  | 1                    | 6/18/2010 07:47 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/15/2010 09:20 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/15/2010 09:20 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/15/2010 09:20 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/15/2010 09:20 PM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 75-131         | %REC  | 1                    | 6/15/2010 09:20 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                    | 6/15/2010 09:20 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 7.06   |      | 4.91           | mg/Kg | 1                    | 6/21/2010 08:14 PM |
| Surr: Selenate (surr)          | 99.7   |      | 85-115         | %REC  | 1                    | 6/21/2010 08:14 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-27 70'

Lab ID: 1006296-19

Collection Date: 6/5/2010 10:10 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 10:01 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 10:01 PM |
| Surr: 2-Fluorobiphenyl         | 78.0   |      | 70-130         | %REC  | 1                    | 6/12/2010 10:01 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 08:10 AM |
| Surr: 4-Bromofluorobenzene     | 107    |      | 70-130         | %REC  | 1                    | 6/18/2010 08:10 AM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 01:45 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 01:45 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 01:45 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 01:45 PM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 75-131         | %REC  | 1                    | 6/16/2010 01:45 PM |
| Surr: Trifluorotoluene         | 105    |      | 73-130         | %REC  | 1                    | 6/16/2010 01:45 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 13.2   |      | 4.98           | mg/Kg | 1                    | 6/22/2010 09:49 AM |
| Surr: Selenate (surr)          | 111    |      | 85-115         | %REC  | 1                    | 6/22/2010 09:49 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-27 80'

Lab ID: 1006296-20

Collection Date: 6/5/2010 10:20 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 10:20 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 10:20 PM |
| Surr: 2-Fluorobiphenyl         | 86.1   |      | 70-130         | %REC  | 1                    | 6/12/2010 10:20 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 08:57 AM |
| Surr: 4-Bromofluorobenzene     | 111    |      | 70-130         | %REC  | 1                    | 6/18/2010 08:57 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 02:04 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 02:04 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 02:04 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 02:04 PM |
| Surr: 4-Bromofluorobenzene     | 111    |      | 75-131         | %REC  | 1                    | 6/16/2010 02:04 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/16/2010 02:04 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 14.6   |      | 4.95           | mg/Kg | 1                    | 6/21/2010 08:44 PM |
| Surr: Selenate (surr)          | 101    |      | 85-115         | %REC  | 1                    | 6/21/2010 08:44 PM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-27 90'

Lab ID: 1006296-21

Collection Date: 6/5/2010 10:30 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 11:57 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 11:57 PM |
| Surr: 2-Fluorobiphenyl         | 90.9   |      | 70-130         | %REC  | 1                    | 6/12/2010 11:57 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 09:20 AM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 70-130         | %REC  | 1                    | 6/18/2010 09:20 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 02:25 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 02:25 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 02:25 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 02:25 PM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 75-131         | %REC  | 1                    | 6/16/2010 02:25 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/16/2010 02:25 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 5.3    |      | 5.0            | mg/Kg | 1                    | 6/16/2010 12:30 AM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/16/2010 12:30 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-27 100'

Lab ID: 1006296-22

Collection Date: 6/5/2010 10:40 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/13/2010 12:16 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/13/2010 12:16 AM |
| Surr: 2-Fluorobiphenyl         | 84.5   |      | 70-130         | %REC  | 1                    | 6/13/2010 12:16 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 09:43 AM |
| Surr: 4-Bromofluorobenzene     | 126    |      | 70-130         | %REC  | 1                    | 6/18/2010 09:43 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 02:45 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 02:45 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 02:45 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 02:45 PM |
| Surr: 4-Bromofluorobenzene     | 107    |      | 75-131         | %REC  | 1                    | 6/16/2010 02:45 PM |
| Surr: Trifluorotoluene         | 100    |      | 73-130         | %REC  | 1                    | 6/16/2010 02:45 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 5.0            | mg/Kg | 1                    | 6/16/2010 01:35 AM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/16/2010 01:35 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-27 105'

Collection Date: 6/5/2010 10:50 AM

Work Order: 1006296

Lab ID: 1006296-23

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/13/2010 12:35 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/13/2010 12:35 AM |
| Surr: 2-Fluorobiphenyl         | 83.4   |      | 70-130         | %REC  | 1                    | 6/13/2010 12:35 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 10:06 AM |
| Surr: 4-Bromofluorobenzene     | 88.0   |      | 70-130         | %REC  | 1                    | 6/18/2010 10:06 AM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 03:05 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 03:05 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 03:05 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 03:05 PM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 75-131         | %REC  | 1                    | 6/16/2010 03:05 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130         | %REC  | 1                    | 6/16/2010 03:05 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 28     |      | 5.0            | mg/Kg | 1                    | 6/16/2010 01:57 AM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/16/2010 01:57 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-29 10'

Collection Date: 6/5/2010 03:05 PM

Work Order: 1006296

Lab ID: 1006296-24

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit | Units        | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|--------------|--------------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |              |              |                      |                    |
| TPH (Diesel Range)             | ND     |      | SW8015M      | 1.7 mg/Kg    | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Motor Oil Range)          | ND     |      |              | 3.4 mg/Kg    | 1                    | 6/13/2010 12:56 AM |
| Surr: 2-Fluorobiphenyl         | 86.7   |      | 70-130       | %REC         | 1                    | 6/13/2010 12:56 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |              |              |                      |                    |
| Gasoline Range Organics        | ND     |      | SW8015       | 0.050 mg/Kg  | 1                    | Analyst: KKP       |
| Surr: 4-Bromofluorobenzene     | 104    |      | 70-130       | %REC         | 1                    | 6/18/2010 04:50 PM |
| <b>BTEX</b>                    |        |      |              |              |                      |                    |
| Benzene                        | ND     |      | SW8021B      | 0.0010 mg/Kg | 1                    | Analyst: KKP       |
| Toluene                        | ND     |      |              | 0.0010 mg/Kg | 1                    | 6/16/2010 03:25 PM |
| Ethylbenzene                   | ND     |      |              | 0.0010 mg/Kg | 1                    | 6/16/2010 03:25 PM |
| Xylenes, Total                 | ND     |      |              | 0.0030 mg/Kg | 1                    | 6/16/2010 03:25 PM |
| Surr: 4-Bromofluorobenzene     | 109    |      | 75-131       | %REC         | 1                    | 6/16/2010 03:25 PM |
| Surr: Trifluorotoluene         | 101    |      | 73-130       | %REC         | 1                    | 6/16/2010 03:25 PM |
| <b>ANIONS</b>                  |        |      |              |              |                      |                    |
| Chloride                       | 110    |      | E300         | 5.0 mg/Kg    | Prep Date: 6/10/2010 | Analyst: DM        |
| Surr: Selenate (surr)          | 104    |      | 85-115       | %REC         | 1                    | 6/16/2010 02:18 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Laboratory Group**

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-29 20'

Lab ID: 1006296-25

Collection Date: 6/5/2010 03:30 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/13/2010 01:15 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/13/2010 01:15 AM |
| Surr: 2-Fluorobiphenyl         | 79.2   |      | 70-130         | %REC  | 1                    | 6/13/2010 01:15 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 05:13 PM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 70-130         | %REC  | 1                    | 6/18/2010 05:13 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 05:09 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 05:09 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 05:09 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 05:09 PM |
| Surr: 4-Bromofluorobenzene     | 118    |      | 75-131         | %REC  | 1                    | 6/16/2010 05:09 PM |
| Surr: Trifluorotoluene         | 109    |      | 73-130         | %REC  | 1                    | 6/16/2010 05:09 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 11     |      | 5.0            | mg/Kg | 1                    | 6/16/2010 02:40 AM |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/16/2010 02:40 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-29 30

Lab ID: 1006296-26

Collection Date: 6/5/2010 03:45 PM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/13/2010 01:34 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/13/2010 01:34 AM |
| Surr: 2-Fluorobiphenyl         | 82.8   |      | 70-130         | %REC  | 1                    | 6/13/2010 01:34 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 06:47 PM |
| Surr: 4-Bromofluorobenzene     | 94.0   |      | 70-130         | %REC  | 1                    | 6/18/2010 06:47 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 05:31 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 05:31 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 05:31 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 05:31 PM |
| Surr: 4-Bromofluorobenzene     | 118    |      | 75-131         | %REC  | 1                    | 6/16/2010 05:31 PM |
| Surr: Trifluorotoluene         | 108    |      | 73-130         | %REC  | 1                    | 6/16/2010 05:31 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 25     |      | 4.9            | mg/Kg | 1                    | 6/16/2010 03:02 AM |
| Surr: Selenate (surr)          | 99.5   |      | 85-115         | %REC  | 1                    | 6/16/2010 03:02 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-29 40'

Lab ID: 1006296-27

Collection Date: 6/6/2010 06:40 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 10:20 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 10:20 PM |
| Surr: 2-Fluorobiphenyl         | 75.5   |      | 70-130         | %REC  | 1                    | 6/12/2010 10:20 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 07:11 PM |
| Surr: 4-Bromofluorobenzene     | 101    |      | 70-130         | %REC  | 1                    | 6/18/2010 07:11 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 05:51 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 05:51 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 05:51 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 05:51 PM |
| Surr: 4-Bromofluorobenzene     | 118    |      | 75-131         | %REC  | 1                    | 6/16/2010 05:51 PM |
| Surr: Trifluorotoluene         | 106    |      | 73-130         | %REC  | 1                    | 6/16/2010 05:51 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 25     |      | 5.0            | mg/Kg | 1                    | 6/16/2010 03:23 AM |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/16/2010 03:23 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-29 50'

Lab ID: 1006296-28

Collection Date: 6/6/2010 06:50 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 10:40 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 10:40 PM |
| Surr: 2-Fluorobiphenyl         | 86.2   |      | 70-130         | %REC  | 1                    | 6/12/2010 10:40 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 07:34 PM |
| Surr: 4-Bromofluorobenzene     | 95.7   |      | 70-130         | %REC  | 1                    | 6/18/2010 07:34 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 06:11 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 06:11 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 06:11 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 06:11 PM |
| Surr: 4-Bromofluorobenzene     | 114    |      | 75-131         | %REC  | 1                    | 6/16/2010 06:11 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                    | 6/16/2010 06:11 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       |                      | Analyst: DM        |
| Chloride                       | ND     |      | 5.0            | mg/Kg | 1                    | 6/16/2010 03:45 AM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/16/2010 03:45 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-29 60'

Lab ID: 1006296-29

Collection Date: 6/6/2010 07:00 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 10:59 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 10:59 PM |
| Surr: 2-Fluorobiphenyl         | 87.6   |      | 70-130         | %REC  | 1                    | 6/12/2010 10:59 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 07:57 PM |
| Surr: 4-Bromofluorobenzene     | 94.8   |      | 70-130         | %REC  | 1                    | 6/18/2010 07:57 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 06:31 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 06:31 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 06:31 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 06:31 PM |
| Surr: 4-Bromofluorobenzene     | 115    |      | 75-131         | %REC  | 1                    | 6/16/2010 06:31 PM |
| Surr: Trifluorotoluene         | 105    |      | 73-130         | %REC  | 1                    | 6/16/2010 06:31 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 5.8    |      | 5.0            | mg/Kg | 1                    | 6/16/2010 04:50 AM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/16/2010 04:50 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-29 70'

Lab ID: 1006296-30

Collection Date: 6/6/2010 07:10 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 11:18 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 11:18 PM |
| Surr: 2-Fluorobiphenyl         | 70.5   |      | 70-130         | %REC  | 1                    | 6/12/2010 11:18 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 08:21 PM |
| Surr: 4-Bromofluorobenzene     | 99.7   |      | 70-130         | %REC  | 1                    | 6/18/2010 08:21 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 06:52 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 06:52 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 06:52 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 06:52 PM |
| Surr: 4-Bromofluorobenzene     | 114    |      | 75-131         | %REC  | 1                    | 6/16/2010 06:52 PM |
| Surr: Trifluorotoluene         | 104    |      | 73-130         | %REC  | 1                    | 6/16/2010 06:52 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 5.3    |      | 5.0            | mg/Kg | 1                    | 6/16/2010 05:12 AM |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/16/2010 05:12 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-29 80'

Collection Date: 6/6/2010 07:15 AM

Work Order: 1006296

Lab ID: 1006296-31

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 11:38 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 11:38 PM |
| Surr: 2-Fluorobiphenyl         | 70.4   |      | 70-130         | %REC  | 1                    | 6/12/2010 11:38 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 08:44 PM |
| Surr: 4-Bromofluorobenzene     | 98.1   |      | 70-130         | %REC  | 1                    | 6/18/2010 08:44 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 07:12 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 07:12 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 07:12 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 07:12 PM |
| Surr: 4-Bromofluorobenzene     | 116    |      | 75-131         | %REC  | 1                    | 6/16/2010 07:12 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/16/2010 07:12 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 5.0            | mg/Kg | 1                    | 6/16/2010 05:34 AM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/16/2010 05:34 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Work Order: 1006296

Sample ID: MW-29 90'

Lab ID: 1006296-32

Collection Date: 6/6/2010 10:20 AM

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/12/2010 11:57 PM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/12/2010 11:57 PM |
| Surr: 2-Fluorobiphenyl         | 76.7   |      | 70-130         | %REC  | 1                    | 6/12/2010 11:57 PM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 09:07 PM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 70-130         | %REC  | 1                    | 6/18/2010 09:07 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 07:10 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 07:10 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/17/2010 07:10 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/17/2010 07:10 PM |
| Surr: 4-Bromofluorobenzene     | 105    |      | 75-131         | %REC  | 1                    | 6/17/2010 07:10 PM |
| Surr: Trifluorotoluene         | 103    |      | 73-130         | %REC  | 1                    | 6/17/2010 07:10 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 4.9            | mg/Kg | 1                    | 6/16/2010 05:55 AM |
| Surr: Selenate (surr)          | 104    |      | 85-115         | %REC  | 1                    | 6/16/2010 05:55 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: MW-29 100'

Collection Date: 6/6/2010 10:30 AM

Work Order: 1006296

Lab ID: 1006296-33

Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/13/2010 12:16 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/13/2010 12:16 AM |
| Surr: 2-Fluorobiphenyl         | 71.7   |      | 70-130         | %REC  | 1                    | 6/13/2010 12:16 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 09:31 PM |
| Surr: 4-Bromofluorobenzene     | 102    |      | 70-130         | %REC  | 1                    | 6/18/2010 09:31 PM |
| <b>BTEX</b>                    |        |      |                |       |                      |                    |
|                                |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 07:52 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 07:52 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 07:52 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 07:52 PM |
| Surr: 4-Bromofluorobenzene     | 110    |      | 75-131         | %REC  | 1                    | 6/16/2010 07:52 PM |
| Surr: Trifluorotoluene         | 102    |      | 73-130         | %REC  | 1                    | 6/16/2010 07:52 PM |
| <b>ANIONS</b>                  |        |      |                |       |                      |                    |
|                                |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | ND     |      | 5.0            | mg/Kg | 1                    | 6/16/2010 06:17 AM |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/16/2010 06:17 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 23-Jun-10

Client: Navajo Refining Company  
Project: Lea Refinery New Wells  
Sample ID: MW-29 105'  
Collection Date: 6/6/2010 10:45 AM

Work Order: 1006296  
Lab ID: 1006296-34  
Matrix: SOIL

| Analyses                       | Result | Qual | Report Limit   | Units | Dilution Factor      | Date Analyzed      |
|--------------------------------|--------|------|----------------|-------|----------------------|--------------------|
| <b>TPH DRO/ORO</b>             |        |      | <b>SW8015M</b> |       | Prep Date: 6/10/2010 | Analyst: KMB       |
| TPH (Diesel Range)             | ND     |      | 1.7            | mg/Kg | 1                    | 6/13/2010 12:35 AM |
| TPH (Motor Oil Range)          | ND     |      | 3.4            | mg/Kg | 1                    | 6/13/2010 12:35 AM |
| Surr: 2-Fluorobiphenyl         | 73.1   |      | 70-130         | %REC  | 1                    | 6/13/2010 12:35 AM |
| <b>GASOLINE RANGE ORGANICS</b> |        |      | <b>SW8015</b>  |       |                      | Analyst: KKP       |
| Gasoline Range Organics        | ND     |      | 0.050          | mg/Kg | 1                    | 6/18/2010 09:54 PM |
| Surr: 4-Bromofluorobenzene     | 98.6   |      | 70-130         | %REC  | 1                    | 6/18/2010 09:54 PM |
| <b>BTEX</b>                    |        |      | <b>SW8021B</b> |       |                      | Analyst: KKP       |
| Benzene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 08:12 PM |
| Toluene                        | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 08:12 PM |
| Ethylbenzene                   | ND     |      | 0.0010         | mg/Kg | 1                    | 6/16/2010 08:12 PM |
| Xylenes, Total                 | ND     |      | 0.0030         | mg/Kg | 1                    | 6/16/2010 08:12 PM |
| Surr: 4-Bromofluorobenzene     | 108    |      | 75-131         | %REC  | 1                    | 6/16/2010 08:12 PM |
| Surr: Trifluorotoluene         | 104    |      | 73-130         | %REC  | 1                    | 6/16/2010 08:12 PM |
| <b>ANIONS</b>                  |        |      | <b>E300</b>    |       | Prep Date: 6/10/2010 | Analyst: DM        |
| Chloride                       | 26     |      | 5.0            | mg/Kg | 1                    | 6/16/2010 06:39 AM |
| Surr: Selenate (surr)          | 103    |      | 85-115         | %REC  | 1                    | 6/16/2010 06:39 AM |

Note: See Qualifiers Page for a list of qualifiers and their explanation.



**ALS Laboratory Group**

Date: 23-Jun-10

Client: Navajo Refining Company

Project: Lea Refinery New Wells

Sample ID: Trip Blank-052410-17

Collection Date: 6/6/2010

Work Order: 1006296

Lab ID: 1006296-35

Matrix: WATER

| Analyses                   | Result | Qual | Report<br>Limit | Units | Dilution<br>Factor | Date Analyzed      |
|----------------------------|--------|------|-----------------|-------|--------------------|--------------------|
| <b>BTEX</b>                |        |      | <b>SW8021B</b>  |       |                    | Analyst: KKP       |
| Benzene                    | ND     |      | 0.0010          | mg/L  | 1                  | 6/14/2010 06:57 PM |
| Toluene                    | ND     |      | 0.0010          | mg/L  | 1                  | 6/14/2010 06:57 PM |
| Ethylbenzene               | ND     |      | 0.0010          | mg/L  | 1                  | 6/14/2010 06:57 PM |
| Xylenes, Total             | ND     |      | 0.0030          | mg/L  | 1                  | 6/14/2010 06:57 PM |
| Surr: 4-Bromofluorobenzene | 113    |      | 77-129          | %REC  | 1                  | 6/14/2010 06:57 PM |
| Surr: Trifluorotoluene     | 84.8   |      | 75-130          | %REC  | 1                  | 6/14/2010 06:57 PM |

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Laboratory Group

Date: 24-Jun-10

**Client:** Navajo Refining Company  
**Work Order:** 1006296  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: 43606 Instrument ID FID-7 Method: SW8015M

**MBLK** Sample ID: FBLKS3-100610-43606 Units: mg/Kg Analysis Date: 6/22/2010 07:15 PM

Client ID: Run ID: FID-7\_100610C SeqNo: 2003453 Prep Date: 6/10/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.633  | 0.10 | 3.33    | 0             | 109  | 70-130        | 0             |      |           |      |

**LCS** Sample ID: FLCSS3-100610-43606 Units: mg/Kg Analysis Date: 6/22/2010 07:34 PM

Client ID: Run ID: FID-7\_100610C SeqNo: 2003454 Prep Date: 6/10/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 35.61  | 1.7  | 33.33   | 0             | 107  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 33.56  | 3.4  | 33.33   | 0             | 101  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 4.287  | 0.10 | 3.33    | 0             | 129  | 70-130        | 0             |      |           |      |

**MS** Sample ID: 1006296-18BMS Units: mg/Kg Analysis Date: 6/12/2010 08:43 PM

Client ID: MW-27 60' Run ID: FID-7\_100610C SeqNo: 2001811 Prep Date: 6/10/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 27.57  | 1.7  | 33.3    | 0             | 82.8 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 37.93  | 3.4  | 33.3    | 0.0548        | 114  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.819  | 0.10 | 3.327   | 0             | 115  | 70-130        | 0             |      |           |      |

**MSD** Sample ID: 1006296-18BMSD Units: mg/Kg Analysis Date: 6/12/2010 09:03 PM

Client ID: MW-27 60' Run ID: FID-7\_100610C SeqNo: 2001812 Prep Date: 6/10/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| TPH (Diesel Range)     | 29.86  | 1.7  | 33.29   | 0             | 89.7 | 70-130        | 27.57         | 7.95  | 30        |      |
| TPH (Motor Oil Range)  | 38.27  | 3.4  | 33.29   | 0.0548        | 115  | 70-130        | 37.93         | 0.909 | 30        |      |
| Surr: 2-Fluorobiphenyl | 3.603  | 0.10 | 3.326   | 0             | 108  | 70-130        | 3.819         | 5.81  | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006296-01B | 1006296-02B | 1006296-03B |
| 1006296-04B | 1006296-05B | 1006296-06B |
| 1006296-07B | 1006296-08B | 1006296-09B |
| 1006296-10B | 1006296-11B | 1006296-12B |
| 1006296-13B | 1006296-14B | 1006296-15B |
| 1006296-16B | 1006296-17B | 1006296-18B |
| 1006296-19B | 1006296-20B |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006296  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: 43613 Instrument ID FID-8 Method: SW8015M

MBLK Sample ID: FBLKS4-100610-43613 Units: mg/Kg Analysis Date: 6/23/2010 10:44 AM

Client ID: Run ID: FID-8\_100610B SeqNo: 2004197 Prep Date: 6/10/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | ND     | 1.7  |         |               |      |               |               |      |           |      |
| TPH (Motor Oil Range)  | ND     | 3.4  |         |               |      |               |               |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.499  | 0.10 | 3.33    | 0             | 105  | 70-130        | 0             |      |           |      |

LCS Sample ID: FLCSS4-100610-43613 Units: mg/Kg Analysis Date: 6/23/2010 11:03 AM

Client ID: Run ID: FID-8\_100610B SeqNo: 2004200 Prep Date: 6/10/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 34.69  | 1.7  | 33.33   | 0             | 104  | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 33.74  | 3.4  | 33.33   | 0             | 101  | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 3.943  | 0.10 | 3.33    | 0             | 118  | 70-130        | 0             |      |           |      |

MS Sample ID: 1006299-04BMS Units: mg/Kg Analysis Date: 6/23/2010 10:44 AM

Client ID: Run ID: FID-8\_100610B SeqNo: 2004225 Prep Date: 6/10/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 44.18  | 1.7  | 33.3    | 19.18         | 75.1 | 70-130        | 0             |      |           |      |
| TPH (Motor Oil Range)  | 62.66  | 3.4  | 33.3    | 31.76         | 92.8 | 70-130        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl | 2.763  | 0.10 | 3.327   | 0             | 83   | 70-130        | 0             |      |           |      |

MSD Sample ID: 1006299-04BMSD Units: mg/Kg Analysis Date: 6/23/2010 11:03 AM

Client ID: Run ID: FID-8\_100610B SeqNo: 2004226 Prep Date: 6/10/2010 DF: 1

| Analyte                | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|------------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| TPH (Diesel Range)     | 47.04  | 1.7  | 33.25   | 19.18         | 83.8 | 70-130        | 44.18         | 6.27 | 30        |      |
| TPH (Motor Oil Range)  | 68.46  | 3.4  | 33.25   | 31.76         | 110  | 70-130        | 62.66         | 8.84 | 30        | E    |
| Surr: 2-Fluorobiphenyl | 2.969  | 0.10 | 3.322   | 0             | 89.4 | 70-130        | 2.763         | 7.19 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006296-21B | 1006296-22B | 1006296-23B |
| 1006296-24B | 1006296-25B | 1006296-26B |
| 1006296-27B | 1006296-28B | 1006296-29B |
| 1006296-30B | 1006296-31B | 1006296-32B |
| 1006296-33B | 1006296-34B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006296  
Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R92556 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061410-R92556 Units: µg/Kg Analysis Date: 6/14/2010 11:37 AM

Client ID: Run ID: BTEX3\_100614A SeqNo: 1994895 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.81  | 1.0 | 30      | 0             | 103  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 28.66  | 1.0 | 30      | 0             | 95.5 | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-061410-R92556 Units: µg/Kg Analysis Date: 6/14/2010 11:17 AM

Client ID: Run ID: BTEX3\_100614A SeqNo: 1994894 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.28  | 1.0 | 20      | 0             | 111  | 74-129        | 0             |      |           |      |
| Toluene                    | 22.62  | 1.0 | 20      | 0             | 113  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.23  | 1.0 | 20      | 0             | 106  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 66.43  | 3.0 | 60      | 0             | 111  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 31.83  | 1.0 | 30      | 0             | 106  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 32.02  | 1.0 | 30      | 0             | 107  | 73-130        | 0             |      |           |      |

MS Sample ID: 1006296-05AMS Units: µg/Kg Analysis Date: 6/14/2010 02:11 PM

Client ID: MW-25 50' Run ID: BTEX3\_100614A SeqNo: 1994903 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 21.46  | 1.0 | 20      | 0             | 107  | 74-129        | 0             |      |           |      |
| Toluene                    | 22.59  | 1.0 | 20      | 0             | 113  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 22.3   | 1.0 | 20      | 0             | 111  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 67.55  | 3.0 | 60      | 0             | 113  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 33.21  | 1.0 | 30      | 0             | 111  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.71  | 1.0 | 30      | 0             | 102  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1006296-05AMSD Units: µg/Kg Analysis Date: 6/14/2010 02:31 PM

Client ID: MW-25 50' Run ID: BTEX3\_100614A SeqNo: 1994904 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 21.02  | 1.0 | 20      | 0             | 105  | 74-129        | 21.46         | 2.09 | 30        |      |
| Toluene                    | 22.11  | 1.0 | 20      | 0             | 111  | 75-128        | 22.59         | 2.14 | 30        |      |
| Ethylbenzene               | 21.9   | 1.0 | 20      | 0             | 110  | 73-127        | 22.3          | 1.79 | 30        |      |
| Xylenes, Total             | 66.68  | 3.0 | 60      | 0             | 111  | 74-127        | 67.55         | 1.29 | 30        |      |
| Surr: 4-Bromofluorobenzene | 30.62  | 1.0 | 30      | 0             | 102  | 75-131        | 33.21         | 8.11 | 30        |      |
| Surr: Trifluorotoluene     | 29.23  | 1.0 | 30      | 0             | 97.4 | 73-130        | 30.71         | 4.93 | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1006296  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **R92556**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006296-01A | 1006296-02A | 1006296-03A |
| 1006296-04A | 1006296-05A | 1006296-06A |
| 1006296-07A | 1006296-08A | 1006296-09A |
| 1006296-10A | 1006296-11A | 1006296-12A |
| 1006296-13A | 1006296-14A |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006296  
 Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R92562 Instrument ID BTEX1 Method: SW8021B

|                            |                                 |     |         |               |                |               |                                   |      |           |      |
|----------------------------|---------------------------------|-----|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| MBLK                       | Sample ID: MEOHW1-061410-R92562 |     |         |               | Units: µg/L    |               | Analysis Date: 6/14/2010 11:57 AM |      |           |      |
| Client ID:                 | Run ID: BTEX1_100614A           |     |         |               | SeqNo: 1994987 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                          | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Benzene                    | ND                              | 1.0 |         |               |                |               |                                   |      |           |      |
| Toluene                    | ND                              | 1.0 |         |               |                |               |                                   |      |           |      |
| Ethylbenzene               | ND                              | 1.0 |         |               |                |               |                                   |      |           |      |
| Xylenes, Total             | ND                              | 3.0 |         |               |                |               |                                   |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.89                           | 1.0 | 30      | 0             | 110            | 77-129        | 0                                 |      |           |      |
| Surr: Trifluorotoluene     | 26.44                           | 1.0 | 30      | 0             | 88.1           | 75-130        | 0                                 |      |           |      |

|                            |        |                                 |         |               |      |                |               |                                   |           |       |
|----------------------------|--------|---------------------------------|---------|---------------|------|----------------|---------------|-----------------------------------|-----------|-------|
| MBLK                       |        | Sample ID: BBLKW1-061410-R92562 |         |               |      | Units: µg/L    |               | Analysis Date: 6/14/2010 12:15 PM |           |       |
| Client ID:                 |        | Run ID: BTEX1_100614A           |         |               |      | SeqNo: 1994988 |               | Prep Date:                        |           | DF: 1 |
| Analyte                    | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit  | RPD Ref Value | %RPD                              | RPD Limit | Qual  |
| Benzene                    | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Toluene                    | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Ethylbenzene               | ND     | 1.0                             |         |               |      |                |               |                                   |           |       |
| Xylenes, Total             | ND     | 3.0                             |         |               |      |                |               |                                   |           |       |
| Surr: 4-Bromofluorobenzene | 33.87  | 1.0                             | 30      | 0             | 113  | 77-129         | 0             |                                   |           |       |
| Surr: Trifluorotoluene     | 25.43  | 1.0                             | 30      | 0             | 84.8 | 75-130         | 0             |                                   |           |       |

|                            |                                  |     |         |               |                |               |               |                                   |           |      |
|----------------------------|----------------------------------|-----|---------|---------------|----------------|---------------|---------------|-----------------------------------|-----------|------|
| LCS                        | Sample ID: BLC SW1-061410-R92562 |     |         |               |                | Units: µg/L   |               | Analysis Date: 6/14/2010 11:31 AM |           |      |
| Client ID:                 | Run ID: BTEX1_100614A            |     |         |               | SeqNo: 1994986 |               | Prep Date:    |                                   | DF: 1     |      |
| Analyte                    | Result                           | PQL | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value | %RPD                              | RPD Limit | Qual |
| Benzene                    | 18.6                             | 1.0 | 20      | 0             | 93             | 77-126        | 0             |                                   |           |      |
| Toluene                    | 16.59                            | 1.0 | 20      | 0             | 82.9           | 80-124        | 0             |                                   |           |      |
| Ethylbenzene               | 18.01                            | 1.0 | 20      | 0             | 90.1           | 76-125        | 0             |                                   |           |      |
| Xylenes, Total             | 52.29                            | 3.0 | 60      | 0             | 87.1           | 79-124        | 0             |                                   |           |      |
| Surr: 4-Bromofluorobenzene | 34.26                            | 1.0 | 30      | 0             | 114            | 77-129        | 0             |                                   |           |      |
| Surr: Trifluorotoluene     | 26.43                            | 1.0 | 30      | 0             | 88.1           | 75-130        | 0             |                                   |           |      |

|                            |                          |                       |         |               |                |               |                                   |      |           |      |
|----------------------------|--------------------------|-----------------------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| MS                         | Sample ID: 1006372-03AMS |                       |         |               | Units: µg/L    |               | Analysis Date: 6/14/2010 07:32 PM |      |           |      |
| Client ID:                 |                          | Run ID: BTEX1_100614A |         |               | SeqNo: 1995000 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                   | PQL                   | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Benzene                    | 19.66                    | 1.0                   | 20      | 0             | 98.3           | 77-126        | 0                                 |      |           |      |
| Toluene                    | 17.3                     | 1.0                   | 20      | 0             | 86.5           | 80-124        | 0                                 |      |           |      |
| Ethylbenzene               | 18.74                    | 1.0                   | 20      | 0             | 93.7           | 76-125        | 0                                 |      |           |      |
| Xylenes, Total             | 54.17                    | 3.0                   | 60      | 0             | 90.3           | 79-124        | 0                                 |      |           |      |
| Surr: 4-Bromofluorobenzene | 34.9                     | 1.0                   | 30      | 0             | 116            | 77-129        | 0                                 |      |           |      |
| Surr: Trifluorotoluene     | 26.55                    | 1.0                   | 30      | 0             | 88.5           | 75-130        | 0                                 |      |           |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006296  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **R92562** Instrument ID **BTEX1** Method: **SW8021B**

MSD Sample ID: **1006372-03AMSD** Units: **µg/L** Analysis Date: **6/14/2010 07:50 PM**

Client ID: Run ID: **BTEX1\_100614A** SeqNo: **1995001** Prep Date: DF: **1**

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 20.24  | 1.0 | 20      | 0             | 101  | 77-126        | 19.66         | 2.88  | 20        |      |
| Toluene                    | 17.17  | 1.0 | 20      | 0             | 85.9 | 80-124        | 17.3          | 0.727 | 20        |      |
| Ethylbenzene               | 18.34  | 1.0 | 20      | 0             | 91.7 | 76-125        | 18.74         | 2.15  | 20        |      |
| Xylenes, Total             | 53.36  | 3.0 | 60      | 0             | 88.9 | 79-124        | 54.17         | 1.51  | 20        |      |
| Surr: 4-Bromofluorobenzene | 35.3   | 1.0 | 30      | 0             | 118  | 77-129        | 34.9          | 1.13  | 20        |      |
| Surr: Trifluorotoluene     | 27.12  | 1.0 | 30      | 0             | 90.4 | 75-130        | 26.55         | 2.11  | 20        |      |

The following samples were analyzed in this batch:

1006296-35A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006296  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: **R92708** Instrument ID **BTEX3** Method: **SW8021B**

**MBLK** Sample ID: **BBLKS1-061510-R92708** Units: **µg/Kg** Analysis Date: **6/15/2010 11:12 AM**

Client ID: Run ID: **BTEX3\_100615A** SeqNo: **1998306** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.47  | 1.0 | 30      | 0             | 108  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 30.32  | 1.0 | 30      | 0             | 101  | 73-130        | 0             |      |           |      |

**LCS** Sample ID: **BLCSS1-061510-R92708** Units: **µg/Kg** Analysis Date: **6/15/2010 11:32 AM**

Client ID: Run ID: **BTEX3\_100615A** SeqNo: **1998307** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.65  | 1.0 | 20      | 0             | 113  | 74-129        | 0             |      |           |      |
| Toluene                    | 23.34  | 1.0 | 20      | 0             | 117  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 23.3   | 1.0 | 20      | 0             | 117  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 70.56  | 3.0 | 60      | 0             | 118  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 33.04  | 1.0 | 30      | 0             | 110  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 32.03  | 1.0 | 30      | 0             | 107  | 73-130        | 0             |      |           |      |

**MS** Sample ID: **1006397-01AMS** Units: **µg/Kg** Analysis Date: **6/15/2010 04:02 PM**

Client ID: Run ID: **BTEX3\_100615A** SeqNo: **1998314** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.35  | 1.0 | 20      | 0             | 112  | 74-129        | 0             |      |           |      |
| Toluene                    | 22.5   | 1.0 | 20      | 0             | 112  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 22.32  | 1.0 | 20      | 0             | 112  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 67.99  | 3.0 | 60      | 0             | 113  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.08  | 1.0 | 30      | 0             | 107  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.67  | 1.0 | 30      | 0             | 106  | 73-130        | 0             |      |           |      |

**MSD** Sample ID: **1006397-01AMSD** Units: **µg/Kg** Analysis Date: **6/15/2010 04:22 PM**

Client ID: Run ID: **BTEX3\_100615A** SeqNo: **1998315** Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 21.97  | 1.0 | 20      | 0             | 110  | 74-129        | 22.35         | 1.72  | 30        |      |
| Toluene                    | 22.52  | 1.0 | 20      | 0             | 113  | 75-128        | 22.5          | 0.095 | 30        |      |
| Ethylbenzene               | 22.28  | 1.0 | 20      | 0             | 111  | 73-127        | 22.32         | 0.157 | 30        |      |
| Xylenes, Total             | 68.25  | 3.0 | 60      | 0             | 114  | 74-127        | 67.99         | 0.383 | 30        |      |
| Surr: 4-Bromofluorobenzene | 33.73  | 1.0 | 30      | 0             | 112  | 75-131        | 32.08         | 5.02  | 30        |      |
| Surr: Trifluorotoluene     | 32.43  | 1.0 | 30      | 0             | 108  | 73-130        | 31.67         | 2.36  | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Navajo Refining Company  
**Work Order:** 1006296  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **R92708**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006296-15A | 1006296-16A | 1006296-17A |
| 1006296-18A |             |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006296  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R92710 Instrument ID BTEX3 Method: SW8021B

MBLK Sample ID: BBLKS1-061610-R92710 Units: µg/Kg Analysis Date: 6/16/2010 11:58 AM

Client ID: Run ID: BTEX3\_100616A SeqNo: 1998357 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 30.53  | 1.0 | 30      | 0             | 102  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.04  | 1.0 | 30      | 0             | 103  | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-061610-R92710 Units: µg/Kg Analysis Date: 6/16/2010 11:21 AM

Client ID: Run ID: BTEX3\_100616A SeqNo: 1998356 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 21.35  | 1.0 | 20      | 0             | 107  | 74-129        | 0             |      |           |      |
| Toluene                    | 22.18  | 1.0 | 20      | 0             | 111  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.99  | 1.0 | 20      | 0             | 110  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 67.52  | 3.0 | 60      | 0             | 113  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.71  | 1.0 | 30      | 0             | 109  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.03  | 1.0 | 30      | 0             | 103  | 73-130        | 0             |      |           |      |

MS Sample ID: 1006296-24AMS Units: µg/Kg Analysis Date: 6/16/2010 03:48 PM

Client ID: MW-29 10' Run ID: BTEX3\_100616A SeqNo: 1998395 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 22.52  | 1.0 | 20      | 0             | 113  | 74-129        | 0             |      |           |      |
| Toluene                    | 22.93  | 1.0 | 20      | 0             | 115  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 22.37  | 1.0 | 20      | 0             | 112  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 68.98  | 3.0 | 60      | 0             | 115  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 33.95  | 1.0 | 30      | 0             | 113  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 32.48  | 1.0 | 30      | 0             | 108  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1006296-24AMSD Units: µg/Kg Analysis Date: 6/16/2010 04:08 PM

Client ID: MW-29 10' Run ID: BTEX3\_100616A SeqNo: 1998396 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 21.86  | 1.0 | 20      | 0             | 109  | 74-129        | 22.52         | 2.97  | 30        |      |
| Toluene                    | 22.79  | 1.0 | 20      | 0             | 114  | 75-128        | 22.93         | 0.628 | 30        |      |
| Ethylbenzene               | 23.01  | 1.0 | 20      | 0             | 115  | 73-127        | 22.37         | 2.79  | 30        |      |
| Xylenes, Total             | 70.21  | 3.0 | 60      | 0             | 117  | 74-127        | 68.98         | 1.76  | 30        |      |
| Surr: 4-Bromofluorobenzene | 34.65  | 1.0 | 30      | 0             | 116  | 75-131        | 33.95         | 2.04  | 30        |      |
| Surr: Trifluorotoluene     | 32.03  | 1.0 | 30      | 0             | 107  | 73-130        | 32.48         | 1.4   | 30        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1006296  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **R92710**

Instrument ID **BTEX3**

Method: **SW8021B**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006296-19A | 1006296-20A | 1006296-21A |
| 1006296-22A | 1006296-23A | 1006296-24A |
| 1006296-25A | 1006296-26A | 1006296-27A |
| 1006296-28A | 1006296-29A | 1006296-30A |
| 1006296-31A | 1006296-32A | 1006296-33A |
| 1006296-34A |             |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company

Work Order: 1006296

Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R92712

Instrument ID BTEX3

Method: SW8021B

MBLK Sample ID: BBLKS1-061710-R92712

Units: µg/Kg

Analysis Date: 6/17/2010 01:11 PM

Client ID:

Run ID: BTEX3\_100617A

SeqNo: 1998400

Prep Date:

DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Toluene                    | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Ethylbenzene               | ND     | 1.0 |         |               |      |               |               |      |           |      |
| Xylenes, Total             | ND     | 3.0 |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 31.27  | 1.0 | 30      | 0             | 104  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.2   | 1.0 | 30      | 0             | 104  | 73-130        | 0             |      |           |      |

LCS Sample ID: BLCSS1-061710-R92712

Units: µg/Kg

Analysis Date: 6/17/2010 12:37 PM

Client ID:

Run ID: BTEX3\_100617A

SeqNo: 1998399

Prep Date:

DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 20.83  | 1.0 | 20      | 0             | 104  | 74-129        | 0             |      |           |      |
| Toluene                    | 22     | 1.0 | 20      | 0             | 110  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 21.85  | 1.0 | 20      | 0             | 109  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 65.89  | 3.0 | 60      | 0             | 110  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 31.67  | 1.0 | 30      | 0             | 106  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.11  | 1.0 | 30      | 0             | 104  | 73-130        | 0             |      |           |      |

MS Sample ID: 1006299-11AMS

Units: µg/Kg

Analysis Date: 6/17/2010 04:33 PM

Client ID:

Run ID: BTEX3\_100617A

SeqNo: 1998410

Prep Date:

DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Benzene                    | 21.39  | 1.0 | 20      | 0             | 107  | 74-129        | 0             |      |           |      |
| Toluene                    | 22.97  | 1.0 | 20      | 0             | 115  | 75-128        | 0             |      |           |      |
| Ethylbenzene               | 22.26  | 1.0 | 20      | 0             | 111  | 73-127        | 0             |      |           |      |
| Xylenes, Total             | 67.88  | 3.0 | 60      | 0             | 113  | 74-127        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 32.16  | 1.0 | 30      | 0             | 107  | 75-131        | 0             |      |           |      |
| Surr: Trifluorotoluene     | 31.3   | 1.0 | 30      | 0             | 104  | 73-130        | 0             |      |           |      |

MSD Sample ID: 1006299-11AMSD

Units: µg/Kg

Analysis Date: 6/17/2010 04:53 PM

Client ID:

Run ID: BTEX3\_100617A

SeqNo: 1998411

Prep Date:

DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Benzene                    | 20.84  | 1.0 | 20      | 0             | 104  | 74-129        | 21.39         | 2.59  | 30        |      |
| Toluene                    | 22.27  | 1.0 | 20      | 0             | 111  | 75-128        | 22.97         | 3.09  | 30        |      |
| Ethylbenzene               | 22.17  | 1.0 | 20      | 0             | 111  | 73-127        | 22.26         | 0.4   | 30        |      |
| Xylenes, Total             | 67.74  | 3.0 | 60      | 0             | 113  | 74-127        | 67.88         | 0.202 | 30        |      |
| Surr: 4-Bromofluorobenzene | 32.48  | 1.0 | 30      | 0             | 108  | 75-131        | 32.16         | 0.988 | 30        |      |
| Surr: Trifluorotoluene     | 30.98  | 1.0 | 30      | 0             | 103  | 73-130        | 31.3          | 1.04  | 30        |      |

The following samples were analyzed in this batch:

1006296-32A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006296  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: R92970 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-061710-R92970 Units: mg/Kg Analysis Date: 6/17/2010 02:03 PM

Client ID: Run ID: FID-9\_100617A SeqNo: 2004125 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND     | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1038 | 0.0050 | 0.1     | 0             | 104  | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-061710-R92970 Units: mg/Kg Analysis Date: 6/17/2010 01:39 PM

Client ID: Run ID: FID-9\_100617A SeqNo: 2004123 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.131  | 0.050  | 1       | 0             | 113  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1061 | 0.0050 | 0.1     | 0             | 106  | 70-130        | 0             |      |           |      |

MS Sample ID: 1006299-08BMS Units: mg/Kg Analysis Date: 6/17/2010 08:08 PM

Client ID: Run ID: FID-9\_100617A SeqNo: 2004140 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.165  | 0.050  | 1       | 0             | 117  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1043 | 0.0050 | 0.1     | 0             | 104  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1006299-08BMSD Units: mg/Kg Analysis Date: 6/17/2010 08:31 PM

Client ID: Run ID: FID-9\_100617A SeqNo: 2004141 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.138  | 0.050  | 1       | 0             | 114  | 70-130        | 1.165         | 2.35 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.1067 | 0.0050 | 0.1     | 0             | 107  | 70-130        | 0.1043        | 2.31 | 30        |      |

The following samples were analyzed in this batch:

1006296-03B

Client: Navajo Refining Company  
Work Order: 1006296  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R92971 Instrument ID FID-9 Method: SW8015

MBLK Sample ID: GBLKS-061810-R92971 Units: mg/Kg Analysis Date: 6/18/2010 12:47 AM

Client ID: Run ID: FID-9\_100617B SeqNo: 2004170 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | ND     | 0.050  |         |               |      |               |               |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1052 | 0.0050 | 0.1     | 0             | 105  | 70-130        | 0             |      |           |      |

LCS Sample ID: GLCSS-061810-R92971 Units: mg/Kg Analysis Date: 6/18/2010 12:24 AM

Client ID: Run ID: FID-9\_100617B SeqNo: 2004169 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.151  | 0.050  | 1       | 0             | 115  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1081 | 0.0050 | 0.1     | 0             | 108  | 70-130        | 0             |      |           |      |

MS Sample ID: 1006296-09BMS Units: mg/Kg Analysis Date: 6/18/2010 03:30 AM

Client ID: MW-25 90' Run ID: FID-9\_100617B SeqNo: 2004177 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.215  | 0.050  | 1       | 0             | 121  | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1138 | 0.0050 | 0.1     | 0             | 114  | 70-130        | 0             |      |           |      |

MSD Sample ID: 1006296-09BMSD Units: mg/Kg Analysis Date: 6/18/2010 03:54 AM

Client ID: MW-25 90' Run ID: FID-9\_100617B SeqNo: 2004178 Prep Date: DF: 1

| Analyte                    | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics    | 1.155  | 0.050  | 1       | 0             | 115  | 70-130        | 1.215         | 5.08 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.1087 | 0.0050 | 0.1     | 0             | 109  | 70-130        | 0.1138        | 4.59 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006296-04B | 1006296-05B | 1006296-06B |
| 1006296-07B | 1006296-08B | 1006296-09B |
| 1006296-12B | 1006296-13B | 1006296-14B |
| 1006296-15B | 1006296-16B | 1006296-17B |
| 1006296-18B | 1006296-19B | 1006296-20B |
| 1006296-21B | 1006296-22B | 1006296-23B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
Work Order: 1006296  
Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: R92978 Instrument ID FID-9 Method: SW8015

|                            |                                |        |         |               |                |               |                                   |      |           |      |
|----------------------------|--------------------------------|--------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| MBLK                       | Sample ID: GBLKS-061810-R92978 |        |         |               | Units: mg/Kg   |               | Analysis Date: 6/18/2010 02:51 PM |      |           |      |
| Client ID:                 | Run ID: FID-9_100618A          |        |         |               | SeqNo: 2004322 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                         | PQL    | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | ND                             | 0.050  |         |               |                |               |                                   |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1028                         | 0.0050 | 0.1     | 0             | 103            | 70-130        | 0                                 |      |           |      |

|                            |                                |        |         |               |                |               |                                   |      |           |      |
|----------------------------|--------------------------------|--------|---------|---------------|----------------|---------------|-----------------------------------|------|-----------|------|
| LCS                        | Sample ID: GLCSS-061810-R92978 |        |         |               | Units: mg/Kg   |               | Analysis Date: 6/18/2010 02:28 PM |      |           |      |
| Client ID:                 | Run ID: FID-9_100618A          |        |         |               | SeqNo: 2004321 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                         | PQL    | SPK Val | SPK Ref Value | %REC           | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | 1.176                          | 0.050  | 1       | 0             | 118            | 70-130        | 0                                 |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1033                         | 0.0050 | 0.1     | 0             | 103            | 70-130        | 0                                 |      |           |      |

|                            |                          |                       |         |               |               |               |                                   |      |           |      |
|----------------------------|--------------------------|-----------------------|---------|---------------|---------------|---------------|-----------------------------------|------|-----------|------|
| MS                         | Sample ID: 1006296-25BMS |                       |         |               | Units: mg/Kg  |               | Analysis Date: 6/18/2010 05:37 PM |      |           |      |
| Client ID: MW-29 20'       |                          | Run ID: FID-9_100618A |         |               | SeqNo:2004329 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                   | PQL                   | SPK Val | SPK Ref Value | %REC          | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | 1.114                    | 0.050                 | 1       | 0             | 111           | 70-130        | 0                                 |      |           |      |
| Surr: 4-Bromofluorobenzene | 0.1032                   | 0.0050                | 0.1     | 0             | 103           | 70-130        | 0                                 |      |           |      |

|                            |                           |                       |         |               |               |               |                                   |      |           |      |
|----------------------------|---------------------------|-----------------------|---------|---------------|---------------|---------------|-----------------------------------|------|-----------|------|
| MSD                        | Sample ID: 1006296-25BMSD |                       |         |               | Units: mg/Kg  |               | Analysis Date: 6/18/2010 06:00 PM |      |           |      |
| Client ID: MW-29 20'       |                           | Run ID: FID-9_100618A |         |               | SeqNo:2004330 |               | Prep Date:                        |      | DF: 1     |      |
| Analyte                    | Result                    | PQL                   | SPK Val | SPK Ref Value | %REC          | Control Limit | RPD Ref Value                     | %RPD | RPD Limit | Qual |
| Gasoline Range Organics    | 1.148                     | 0.050                 | 1       | 0             | 115           | 70-130        | 1.114                             | 2.98 | 30        |      |
| Surr: 4-Bromofluorobenzene | 0.1069                    | 0.0050                | 0.1     | 0             | 107           | 70-130        | 0.1032                            | 3.47 | 30        |      |

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006296-01B | 1006296-02B | 1006296-10B |
| 1006296-11B | 1006296-24B | 1006296-25B |
| 1006296-26B | 1006296-27B | 1006296-28B |
| 1006296-29B | 1006296-30B | 1006296-31B |
| 1006296-32B | 1006296-33B | 1006296-34B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006296  
 Project: Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: 43615 Instrument ID ICS2100 Method: E300

MBLK Sample ID: WBLKS1-061010-43615 Units: mg/Kg Analysis Date: 6/21/2010 12:02 PM

Client ID: Run ID: ICS2100\_100621A SeqNo: 2002201 Prep Date: 6/10/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Surr: Selenate (surr) | 48.18  | 1.0 | 50      | 0             | 96.4 | 85-115        | 0             |      |           |      |

LCS Sample ID: WLCSS1-061010-43615 Units: mg/Kg Analysis Date: 6/21/2010 11:41 AM

Client ID: Run ID: ICS2100\_100621A SeqNo: 2002200 Prep Date: 6/10/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 193.4  | 5.0 | 200     | 0             | 96.7 | 90-110        | 0             |      |           |      |
| Surr: Selenate (surr) | 49.17  | 1.0 | 50      | 0             | 98.3 | 85-115        | 0             |      |           |      |

LCSD Sample ID: WLCSDS1-061010-43615 Units: mg/Kg Analysis Date: 6/21/2010 12:17 PM

Client ID: Run ID: ICS2100\_100621A SeqNo: 2002202 Prep Date: 6/10/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Chloride              | 194.3  | 5.0 | 200     | 0             | 97.1 | 90-110        | 193.4         | 0.464 | 20        |      |
| Surr: Selenate (surr) | 49.37  | 1.0 | 50      | 0             | 98.7 | 85-115        | 49.17         | 0.406 | 20        |      |

MS Sample ID: 1006296-01BMS Units: mg/Kg Analysis Date: 6/21/2010 01:32 PM

Client ID: MW-25 10' Run ID: ICS2100\_100621A SeqNo: 2002204 Prep Date: 6/10/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 98.64  | 5.0 | 99.8    | 3.343         | 95.5 | 75-125        | 0             |      |           |      |
| Surr: Selenate (surr) | 48.93  | 1.0 | 49.9    | 0             | 98.1 | 80-120        | 0             |      |           |      |

MSD Sample ID: 1006296-01BMSD Units: mg/Kg Analysis Date: 6/21/2010 02:07 PM

Client ID: MW-25 10' Run ID: ICS2100\_100621A SeqNo: 2002206 Prep Date: 6/10/2010 DF: 1

| Analyte               | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 102.7  | 5.0 | 99.8    | 3.343         | 99.6 | 75-125        | 98.64         | 4.03 | 20        |      |
| Surr: Selenate (surr) | 51.42  | 1.0 | 49.9    | 0             | 103  | 80-120        | 48.93         | 4.95 | 20        |      |

DUP Sample ID: 1006296-20BDUP Units: mg/Kg Analysis Date: 6/21/2010 08:58 PM

Client ID: MW-27 80' Run ID: ICS2100\_100621A SeqNo: 2002237 Prep Date: 6/10/2010 DF: 1

| Analyte               | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chloride              | 14.12  | 5.0  | 0       | 0             | 0    | 0-0           | 14.56         | 3.11 | 20        |      |
| Surr: Selenate (surr) | 46.47  | 0.99 | 49.5    | 0             | 93.9 | 85-115        | 49.76         | 6.85 | 20        |      |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Navajo Refining Company  
Work Order: 1006296  
Project: Lea Refinery New Wells

QC BATCH REPORT

Batch ID: 43615      Instrument ID ICS2100      Method: E300

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006296-01B | 1006296-02B | 1006296-03B |
| 1006296-04B | 1006296-05B | 1006296-06B |
| 1006296-07B | 1006296-08B | 1006296-09B |
| 1006296-10B | 1006296-11B | 1006296-12B |
| 1006296-13B | 1006296-14B | 1006296-15B |
| 1006296-16B | 1006296-17B | 1006296-18B |
| 1006296-19B | 1006296-20B |             |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company  
 Work Order: 1006296  
 Project: Lea Refinery New Wells

# QC BATCH REPORT

Batch ID: 43617 Instrument ID ICS3000 Method: E300

| <b>MBLK</b>           |        | Sample ID: <b>WBLKS1-061010-43617</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>6/15/2010 01:16 PM</b> |           |              |
|-----------------------|--------|---------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| Client ID:            |        | Run ID: <b>ICS3000_100615B</b>        |         |               |      | SeqNo: <b>1996339</b> |               | Prep Date: <b>6/10/2010</b>              |           | DF: <b>1</b> |
| Analyte               | Result | PQL                                   | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Chloride              | 2.86   | 5.0                                   |         |               |      |                       |               |                                          |           | J            |
| Surr: Selenate (surr) | 52.07  | 1.0                                   | 50      | 0             | 104  | 85-115                | 0             |                                          |           |              |

| <b>LCSD</b>           |        | Sample ID: <b>WLCSDS1-061010-43617</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>6/15/2010 01:59 PM</b> |           |              |
|-----------------------|--------|----------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| Client ID:            |        | Run ID: <b>ICS3000_100615B</b>         |         |               |      | SeqNo: <b>1996341</b> |               | Prep Date: <b>6/10/2010</b>              |           | DF: <b>1</b> |
| Analyte               | Result | PQL                                    | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Chloride              | 188.7  | 5.0                                    | 200     | 0             | 94.4 | 90-110                | 0             |                                          |           |              |
| Surr: Selenate (surr) | 50.25  | 1.0                                    | 50      | 0             | 100  | 85-115                | 0             |                                          |           |              |

| <b>MS</b>                   |        | Sample ID: <b>1006296-21BMS</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>6/16/2010 12:52 AM</b> |           |              |
|-----------------------------|--------|---------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| Client ID: <b>MW-27 90'</b> |        | Run ID: <b>ICS3000_100615B</b>  |         |               |      | SeqNo: <b>1996344</b> |               | Prep Date: <b>6/10/2010</b>              |           | DF: <b>1</b> |
| Analyte                     | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Chloride                    | 101.1  | 5.0                             | 99.8    | 0             | 101  | 75-125                | 0             |                                          |           |              |
| Surr: Selenate (surr)       | 51.38  | 1.0                             | 49.9    | 0             | 103  | 80-120                | 0             |                                          |           |              |

| <b>MS</b>                    |        | Sample ID: <b>1006296-34BMS</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>6/16/2010 07:00 AM</b> |           |              |
|------------------------------|--------|---------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| Client ID: <b>MW-29 105'</b> |        | Run ID: <b>ICS3000_100615B</b>  |         |               |      | SeqNo: <b>1996399</b> |               | Prep Date: <b>6/10/2010</b>              |           | DF: <b>1</b> |
| Analyte                      | Result | PQL                             | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Chloride                     | 122.8  | 5.0                             | 99.01   | 0             | 124  | 75-125                | 0             |                                          |           |              |
| Surr: Selenate (surr)        | 51.15  | 0.99                            | 49.5    | 0             | 103  | 80-120                | 0             |                                          |           |              |

| <b>MSD</b>                  |        | Sample ID: <b>1006296-21BMSD</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>6/16/2010 01:13 AM</b> |           |              |
|-----------------------------|--------|----------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| Client ID: <b>MW-27 90'</b> |        | Run ID: <b>ICS3000_100615B</b>   |         |               |      | SeqNo: <b>1996345</b> |               | Prep Date: <b>6/10/2010</b>              |           | DF: <b>1</b> |
| Analyte                     | Result | PQL                              | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Chloride                    | 100.9  | 5.0                              | 99.8    | 0             | 101  | 75-125                | 0             |                                          |           |              |
| Surr: Selenate (surr)       | 51.29  | 1.0                              | 49.9    | 0             | 103  | 80-120                | 0             |                                          |           |              |

| <b>MSD</b>                   |        | Sample ID: <b>1006296-34BMSD</b> |         |               |      | Units: <b>mg/Kg</b>   |               | Analysis Date: <b>6/16/2010 07:22 AM</b> |           |              |
|------------------------------|--------|----------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| Client ID: <b>MW-29 105'</b> |        | Run ID: <b>ICS3000_100615B</b>   |         |               |      | SeqNo: <b>1996400</b> |               | Prep Date: <b>6/10/2010</b>              |           | DF: <b>1</b> |
| Analyte                      | Result | PQL                              | SPK Val | SPK Ref Value | %REC | Control Limit         | RPD Ref Value | %RPD                                     | RPD Limit | Qual         |
| Chloride                     | 123.5  | 5.0                              | 99.01   | 0             | 125  | 75-125                | 0             |                                          |           |              |
| Surr: Selenate (surr)        | 51.09  | 0.99                             | 49.5    | 0             | 103  | 80-120                | 0             |                                          |           |              |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Navajo Refining Company  
**Work Order:** 1006296  
**Project:** Lea Refinery New Wells

## QC BATCH REPORT

Batch ID: **43617** Instrument ID **ICS3000** Method: **E300**

The following samples were analyzed in this batch:

|             |             |             |
|-------------|-------------|-------------|
| 1006296-21B | 1006296-22B | 1006296-23B |
| 1006296-24B | 1006296-25B | 1006296-26B |
| 1006296-27B | 1006296-29B | 1006296-30B |
| 1006296-31B | 1006296-32B | 1006296-33B |
| 1006296-34B |             |             |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

## ALS Laboratory Group

Date: 23-Jun-10

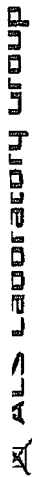
**Client:** Navajo Refining Company  
**Project:** Lea Refinery New Wells  
**WorkOrder:** 1006296

## QUALIFIERS, ACRONYMS, UNITS

| <u>Qualifier</u> | <u>Description</u>                                                        |
|------------------|---------------------------------------------------------------------------|
| *                | Value exceeds Regulatory Limit                                            |
| a                | Not accredited                                                            |
| B                | Analyte detected in the associated Method Blank above the Reporting Limit |
| E                | Value above quantitation range                                            |
| H                | Analyzed outside of Holding Time                                          |
| J                | Analyte detected below quantitation limit                                 |
| M                | Manually integrated, see raw data for justification                       |
| n                | Not offered for accreditation                                             |
| ND               | Not Detected at the Reporting Limit                                       |
| O                | Sample amount is > 4 times amount spiked                                  |
| P                | Dual Column results percent difference > 40%                              |
| R                | RPD above laboratory control limit                                        |
| S                | Spike Recovery outside laboratory control limits                          |
| U                | Analyzed but not detected above the MDL                                   |

| <u>Acronym</u> | <u>Description</u>                  |
|----------------|-------------------------------------|
| DUP            | Method Duplicate                    |
| LCS            | Laboratory Control Sample           |
| LCSD           | Laboratory Control Sample Duplicate |
| MBLK           | Method Blank                        |
| MDL            | Method Detection Limit              |
| MQL            | Method Quantitation Limit           |
| MS             | Matrix Spike                        |
| MSD            | Matrix Spike Duplicate              |
| PDS            | Post Digestion Spike                |
| PQL            | Practical Quantitation Limit        |
| SD             | Serial Dilution                     |
| SDL            | Sample Detection Limit              |
| TRRP           | Texas Risk Reduction Program        |

| <u>Units Reported</u> | <u>Description</u>      |
|-----------------------|-------------------------|
| mg/Kg                 | Milligrams per Kilogram |
| mg/L                  | Milligrams per Liter    |



# Chain of Custody Form

**ALS Laboratory Group**

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Holland, MI 49424-9263  
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Fax: +1 616 399 6185

page 1 of 4

| Customer Information                                                                                                                                                         |                         |        |      | Project Information                   |                  |          |   | ALS Project Manager: <u>ALS Work Order #:</u> <u>106796</u> |   |   |   |                     |   |   |   |      |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------|------|---------------------------------------|------------------|----------|---|-------------------------------------------------------------|---|---|---|---------------------|---|---|---|------|--|--|--|
| ALS Project Manager: <u>ALS Work Order #:</u> <u>106796</u>                                                                                                                  |                         |        |      | Parameter/Method Request for Analysis |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| Project Information                                                                                                                                                          |                         |        |      | Parameter/Method Request for Analysis |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| Purchase Order                                                                                                                                                               | Lea Refinery New Wells  |        |      | A                                     | BTEX (8021)      |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| Work Order                                                                                                                                                                   | NAV-10-003              |        |      | B                                     | GRO (8015M)      |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| Company Name                                                                                                                                                                 | Navajo Refining Company |        |      | C                                     | DRO (8015M)      |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| Send Report To                                                                                                                                                               | Darrrell Moore          |        |      | D                                     | ORO (8015M)      |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| Address                                                                                                                                                                      | P.O. Box 159            |        |      | E                                     | Antions (300) CI |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| City/State/Zip                                                                                                                                                               | Artesia, NM 88211       |        |      | F                                     |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| Phone                                                                                                                                                                        | (505) 748-3311          |        |      | G                                     |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| Fax                                                                                                                                                                          | (505) 748-5421          |        |      | H                                     |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| e-Mail Address                                                                                                                                                               | dqboyer@SESI-NM.com     |        |      | I                                     |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
|                                                                                                                                                                              |                         |        |      | J                                     |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| No.                                                                                                                                                                          | Sample Description      | Date   | Time | Matrix                                | Pres.            | #Bottles | A | B                                                           | C | D | E | F                   | G | H | J | Hold |  |  |  |
| 1                                                                                                                                                                            | MW-25 10'               | 6/4/18 | 1120 | Soil                                  | B                | 2        | X | X                                                           | X | X | X |                     |   |   |   |      |  |  |  |
| 2                                                                                                                                                                            | 20'                     |        | 1130 |                                       |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| 3                                                                                                                                                                            | 30'                     |        | 1140 |                                       |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| 4                                                                                                                                                                            | 40'                     |        | 1150 |                                       |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| 5                                                                                                                                                                            | 50'                     |        | 1240 |                                       |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| 6                                                                                                                                                                            | 60'                     |        | 1250 |                                       |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| 7                                                                                                                                                                            | 70'                     |        | 1300 |                                       |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| 8                                                                                                                                                                            | 80'                     |        | 1305 |                                       |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| 9                                                                                                                                                                            | 90'                     |        | 1315 |                                       |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |
| 10                                                                                                                                                                           | MW-25 100'              | 6/4/18 | 1325 | Soil                                  | B                | 2        | X | X                                                           | X | X | X |                     |   |   |   |      |  |  |  |
| Sampler(s) Please Print & Sign                                                                                                                                               |                         |        |      | Shipment Method                       |                  |          |   | Required Turnaround Time: (Check Box)                       |   |   |   | Results Due Date:   |   |   |   |      |  |  |  |
| D. Boyer                                                                                                                                                                     |                         |        |      | Fed Ex                                |                  |          |   | 1-3 WK Days                                                 |   |   |   | 1-24 Hour           |   |   |   |      |  |  |  |
| Relinquished by: <u>D. Boyer</u>                                                                                                                                             |                         |        |      | Received by: <u>AMM</u>               |                  |          |   | Cooler Temp                                                 |   |   |   | Cooler Temp         |   |   |   |      |  |  |  |
| Date: <u>6/18/18</u>                                                                                                                                                         |                         |        |      | Time: <u>0800</u>                     |                  |          |   | Cooler ID                                                   |   |   |   | Cooler ID           |   |   |   |      |  |  |  |
| Relinquished by: <u>D. Boyer</u>                                                                                                                                             |                         |        |      | Received by: <u>AMM</u>               |                  |          |   | Cooler Temp                                                 |   |   |   | Cooler Temp         |   |   |   |      |  |  |  |
| Date: <u>6/18/18</u>                                                                                                                                                         |                         |        |      | Time: <u>0800</u>                     |                  |          |   | Cooler ID                                                   |   |   |   | Cooler ID           |   |   |   |      |  |  |  |
| Logged by (Laboratory):                                                                                                                                                      |                         |        |      | Checked by (Laboratory):              |                  |          |   | QC Package: (Check One Box Below)                           |   |   |   | Level II Std OC     |   |   |   |      |  |  |  |
| Date: <u>6/18/18</u>                                                                                                                                                         |                         |        |      | Time: <u>0800</u>                     |                  |          |   | Level III Std QC/Row Data                                   |   |   |   | Level IV SW/4th/CLP |   |   |   |      |  |  |  |
| Preservative Key: 1-HCl 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub> 6-NaHSO <sub>4</sub> 7-Other 8-4°C 9-5035 |                         |        |      |                                       |                  |          |   |                                                             |   |   |   |                     |   |   |   |      |  |  |  |

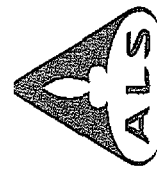
**Note: 1. Any changes must be made in writing once samples and COC form have been submitted to ALS Laboratory Group.**

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[illegible]



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**Chain of Custody Form**

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Page 3 of 4

| Customer Information |                    |        |      | Project Information     |       |           |   | ALS Project Manager: [Signature]      |   |   |   |   |   |   |   |   |      |  |  | ALS Work Order #: 10090 |  |  |  |  |  |  |  |  |  |  |  |
|----------------------|--------------------|--------|------|-------------------------|-------|-----------|---|---------------------------------------|---|---|---|---|---|---|---|---|------|--|--|-------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Project Name:        |                    |        |      | Lea Refinery New Wells  |       |           |   | Parameter/Method Request for Analysis |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Project Number:      |                    |        |      | NAV-10-003              |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Bill To Company:     |                    |        |      | Navajo Refining Company |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Invoice Attn:        |                    |        |      | Darrell Moore           |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Address:             |                    |        |      | P.O. Box 159            |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| City/State/Zip:      |                    |        |      | Artesia, NM 88211       |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Phone:               |                    |        |      | (505) 748-3311          |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Fax:                 |                    |        |      | (505) 746-5421          |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| e-Mail Address:      |                    |        |      | dghayer@SES1-NM.com     |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| No.                  | Sample Description | Date   | Time | Matrix                  | Pres. | # Bottles | A | B                                     | C | D | E | F | G | H | I | J | Hold |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 1                    | MW-27 90'          | 6/5/10 | 1230 | Soil                    | B     | 2         | X | X                                     | X | X | X |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 2                    | MW-27 100'         | 6/5/10 | 1040 |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 3                    | MW-27 105'         | 6/5/10 | 1050 |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 4                    | MW-27 10'          |        | 1505 |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 5                    |                    |        | 1530 |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 6                    |                    | 6/5/10 | 1545 |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 7                    |                    | 6/6/10 | 0640 |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 8                    |                    | 6/6/10 | 0650 |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 9                    |                    | 6/6/10 | 0700 |                         |       |           |   |                                       |   |   |   |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |
| 10                   | MW-27 70'          | 6/6/10 | 0710 | Soil                    | B     | 2         | X | X                                     | X | X | X |   |   |   |   |   |      |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |

| Sampler(s) Please Print & Sign |        | Shipment Method |             | Required Turnaround Time: (Check Box) |            | Results Due Date: |           |
|--------------------------------|--------|-----------------|-------------|---------------------------------------|------------|-------------------|-----------|
| Relinquished by:               | Date:  | Time:           | Signature   | Method                                | 15 WK Days | 10 WK Days        | 5 WK Days |
| [Signature]                    | 6/8/10 | 0800            | [Signature] | FEDEX                                 |            |                   |           |

| Relinquished by: |        | Received by: |        | Notes:                    |  |
|------------------|--------|--------------|--------|---------------------------|--|
| Signature        | Date:  | Signature    | Date:  | 10 Day TAT. Cc Dave Boyer |  |
| [Signature]      | 6/8/10 | [Signature]  | 6/9/10 |                           |  |

| Relinquished by: |        | Received by: |        | QC Package: (Check One Box Below)   |                           |
|------------------|--------|--------------|--------|-------------------------------------|---------------------------|
| Signature        | Date:  | Signature    | Date:  | Level II Std QC                     | Level III Std QC/Raw Data |
| [Signature]      | 6/8/10 | [Signature]  | 6/9/10 | <input checked="" type="checkbox"/> | <input type="checkbox"/>  |

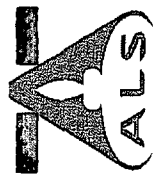
| Relinquished by: |        | Received by: |        | Level IV SW946/CLP       |                          |
|------------------|--------|--------------|--------|--------------------------|--------------------------|
| Signature        | Date:  | Signature    | Date:  | Level IV SW946/CLP       | Other                    |
| [Signature]      | 6/8/10 | [Signature]  | 6/9/10 | <input type="checkbox"/> | <input type="checkbox"/> |

| Relinquished by: |        | Received by: |        | Preservative Key:                |                    |
|------------------|--------|--------------|--------|----------------------------------|--------------------|
| Signature        | Date:  | Signature    | Date:  | 1-HCl                            | 2-HNO <sub>3</sub> |
| [Signature]      | 6/8/10 | [Signature]  | 6/9/10 | 3-H <sub>2</sub> SO <sub>4</sub> | 4-NaOH             |

| Relinquished by: |        | Received by: |        | Preservative Key:                               |                      |
|------------------|--------|--------------|--------|-------------------------------------------------|----------------------|
| Signature        | Date:  | Signature    | Date:  | 5-Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub> | 6-NaHSO <sub>3</sub> |
| [Signature]      | 6/8/10 | [Signature]  | 6/9/10 | 7-Other                                         | 8-4°C                |

| Relinquished by: |        | Received by: |        | Preservative Key: |         |
|------------------|--------|--------------|--------|-------------------|---------|
| Signature        | Date:  | Signature    | Date:  | 9-5035            | 10-5035 |
| [Signature]      | 6/8/10 | [Signature]  | 6/9/10 |                   |         |

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.  
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse side of this form.  
The [Signature] of [Signature] is a [Signature] in [Signature] on [Signature] at [Signature].  
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Chain of Custody Form

ALS Laboratory Group  
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Holland, MI 49424-9263  
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Fax: +1 616 399 6185

Page 4 of 4

| Customer Information |                    |          |      | Project Information |         |         |           | ALS Project Manager: ALS Work Order #: 106296 |           |       |                           |                                       |  |  |  |  |  |  |  |
|----------------------|--------------------|----------|------|---------------------|---------|---------|-----------|-----------------------------------------------|-----------|-------|---------------------------|---------------------------------------|--|--|--|--|--|--|--|
| Purchase Order       |                    |          |      | Project Name        |         |         |           | Lea Refinery New Wells                        |           |       |                           | Parameter/Method Request for Analysis |  |  |  |  |  |  |  |
| Work Order           |                    |          |      | Project Number      |         |         |           | NAV-10-003                                    |           |       |                           | BTEX (8021)                           |  |  |  |  |  |  |  |
| Company Name         |                    |          |      | Bill To Company     |         |         |           | Navajo Refining Company                       |           |       |                           | GRO (8015M)                           |  |  |  |  |  |  |  |
| Send Report To       |                    |          |      | Invoice Attn        |         |         |           | Darrell Moore                                 |           |       |                           | DRO (8015M)                           |  |  |  |  |  |  |  |
| Address              |                    |          |      | P.O. Box 159        |         |         |           | P.O. Box 159                                  |           |       |                           | ORO (8015M)                           |  |  |  |  |  |  |  |
| City/State/Zip       |                    |          |      | Artesia, NM 88211   |         |         |           | Artesia, NM 88211                             |           |       |                           | Antons (300) Cl                       |  |  |  |  |  |  |  |
| Phone                |                    |          |      | (505) 748-3311      |         |         |           | (505) 748-3311                                |           |       |                           |                                       |  |  |  |  |  |  |  |
| Fax                  |                    |          |      | (505) 748-5421      |         |         |           | (505) 748-5421                                |           |       |                           |                                       |  |  |  |  |  |  |  |
| e-Mail Address       |                    |          |      | employee@SES-NM.com |         |         |           |                                               |           |       |                           |                                       |  |  |  |  |  |  |  |
| No.                  | Sample Description | Date     | Time | Matrix              | Pres. # | Bottles | Check Box | Required Turnaround Time                      | Check Box | Notes | 10 Day TAT. Co Dave Boyer | Results Due Date                      |  |  |  |  |  |  |  |
| 1                    | MW-29 80'          | 6/6/10   | 0715 | Soil                | 8       | 2       | X         | 2 Wks                                         | X         |       |                           |                                       |  |  |  |  |  |  |  |
| 2                    | 90                 | 6/6/10   | 1020 |                     |         | 2       | X         | 2 Wks                                         | X         |       |                           |                                       |  |  |  |  |  |  |  |
| 3                    | 100                | 6/6/10   | 1030 |                     |         | 2       | X         | 2 Wks                                         | X         |       |                           |                                       |  |  |  |  |  |  |  |
| 4                    | MW-27 105'         | 6/6/10   | 1045 | Soil                | 8       | 2       | X         | 2 Wks                                         | X         |       |                           |                                       |  |  |  |  |  |  |  |
| 5                    | TRIP Blank         | 05/24/10 | 17   | H <sub>2</sub> O    | 1, 8    | 2       | X         | 2 Wks                                         | X         |       |                           |                                       |  |  |  |  |  |  |  |
| 6                    |                    |          |      |                     |         |         |           |                                               |           |       |                           |                                       |  |  |  |  |  |  |  |
| 7                    |                    |          |      |                     |         |         |           |                                               |           |       |                           |                                       |  |  |  |  |  |  |  |
| 8                    |                    |          |      |                     |         |         |           |                                               |           |       |                           |                                       |  |  |  |  |  |  |  |
| 9                    |                    |          |      |                     |         |         |           |                                               |           |       |                           |                                       |  |  |  |  |  |  |  |
| 10                   |                    |          |      |                     |         |         |           |                                               |           |       |                           |                                       |  |  |  |  |  |  |  |

| Sampler(s) Please Print & Sign |        | Shipment/Method |  |
|--------------------------------|--------|-----------------|--|
| D.G. Boyer                     | 6/3/10 | Fed Ex          |  |

| Requisitioned by: |        | Received by:           |        |
|-------------------|--------|------------------------|--------|
| D.G. Boyer        | 6/3/10 | Received by Laboratory | 6/9/10 |

| Requisitioned by: |        | Checked by (Laboratory): |        |
|-------------------|--------|--------------------------|--------|
| D.G. Boyer        | 6/3/10 | Checked by Laboratory    | 6/9/10 |

| Preservative Key:                               |                      |
|-------------------------------------------------|----------------------|
| 1-HCl                                           | 2-HNO <sub>3</sub>   |
| 3-H <sub>2</sub> SO <sub>4</sub>                | 4-NaOH               |
| 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | 6-NaHSO <sub>4</sub> |
| 7-Other                                         | 8-4°C                |
| 9-5035                                          |                      |

| QC Package: (Check One Box Below)                   |                                         |
|-----------------------------------------------------|-----------------------------------------|
| <input checked="" type="checkbox"/> Level II Std QC | <input type="checkbox"/> TRRP Checklist |
| <input type="checkbox"/> Level III Std QC/RAW Data  | <input type="checkbox"/> TRRP Level IV  |
| <input type="checkbox"/> Level IV SWB-B/C/LP        | <input type="checkbox"/> Other          |



Sample Receipt Checklist

Client Name: **NAVAJO REFINING**

Date/Time Received: **09-Jun-10 08:50**

Work Order: **1006296**

Received by: **RNG**

Checklist completed by Robert D. Harris  
eSignature

09-Jun-10  
Date

Reviewed by:

eSignature

Date

Matrices: soils/waters

Carrier name: FedEx

|                                                         |                                         |                                        |                                                 |
|---------------------------------------------------------|-----------------------------------------|----------------------------------------|-------------------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | Not Present <input type="checkbox"/>            |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                                                 |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                                                 |
| Chain of custody agrees with sample labels?             | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |                                                 |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                                                 |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                                                 |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                                                 |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                                                 |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                                                 |
| Temperature(s)/Thermometer(s):                          | <u>2.2c, 1.8c</u>                       |                                        | <u>002</u>                                      |
| Cooler(s)/Kit(s):                                       | <u>3322, 2077</u>                       |                                        |                                                 |
| Water - VOA vials have zero headspace?                  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | N/A <input checked="" type="checkbox"/>         |
| pH adjusted?                                            | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | N/A <input checked="" type="checkbox"/>         |
| pH adjusted by:                                         | <u></u>                                 |                                        |                                                 |

Login Notes: Sample MW-29 60' sample bottles were not labeled: figure out which sample it was through process of elimination.

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

1000246

This portion can be removed for recipient's records.

to 6/8/10 FedEx Tracking Number 869809950893

Sender's Name D. ROYER Phone 575 350-726

Company SEST

Address 703 E. Clinton

City Hobbs State NM ZIP 88240

Our Internal Billing Reference NAV-02-002 332



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|                      |                         |                   |                            |
|----------------------|-------------------------|-------------------|----------------------------|
| Group                | <b>CUSTODY SEAL 332</b> |                   | Seal Broken By: <u>AVG</u> |
|                      | Date: <u>6/8/10</u>     | Time: <u>0802</u> | Date: <u>6/9/10</u>        |
|                      | Name: <u>D. ROYER</u>   |                   |                            |
| Company: <u>SEST</u> |                         |                   |                            |



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|                      |                       |                   |                            |
|----------------------|-----------------------|-------------------|----------------------------|
| Group                | <b>CUSTODY SEAL</b>   |                   | Seal Broken By: <u>AVG</u> |
|                      | Date: <u>6/8/10</u>   | Time: <u>0802</u> | Date: <u>6/9/10</u>        |
|                      | Name: <u>D. ROYER</u> |                   |                            |
| Company: <u>SEST</u> |                       |                   |                            |

This portion can be removed for recipient's records.

to 6/8/10 FedEx Tracking Number 873133853497

Sender's Name D. ROYER Phone 735 350-7065

Company SEST

Address 703 E. Clinton

City Hobbs State NM ZIP 88240

Our Internal Billing Reference NAV-10-003 207



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|                      |                         |                   |                            |
|----------------------|-------------------------|-------------------|----------------------------|
| Group                | <b>CUSTODY SEAL 207</b> |                   | Seal Broken By: <u>AVG</u> |
|                      | Date: <u>6/8/10</u>     | Time: <u>0802</u> | Date: <u>6/9/10</u>        |
|                      | Name: <u>D. ROYER</u>   |                   |                            |
| Company: <u>SEST</u> |                         |                   |                            |



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|                      |                         |                   |                            |
|----------------------|-------------------------|-------------------|----------------------------|
| Group                | <b>CUSTODY SEAL 207</b> |                   | Seal Broken By: <u>AVG</u> |
|                      | Date: <u>6/8/10</u>     | Time: <u>0802</u> | Date: <u>6/9/10</u>        |
|                      | Name: <u>D. ROYER</u>   |                   |                            |
| Company: <u>SEST</u> |                         |                   |                            |