

GW - 014

**ANNUAL
REPORTS**



REFINING COMPANY, LLC

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April 15, 2009

2009 APR 20 PM 12:48
RECEIVED

Mr. Brad Jones
Oil Conservation Division
Environmental Bureau
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: Discharge Permit GW-014, Lea Refining Co., Lea County, NM

Dear Brad,

Enclosed, please find Lea Refining Company's 2008 Annual Report for Discharge Permit GW-014. The sections on sampling and monitoring are thin due to the fact that the monitor wells at Lovington are too shallow and do not reach the groundwater. Of course, as part of the requirements for this permit, we are deepening the monitor wells so they will be able to access the groundwater. We should have all monitor wells deepened by April 18, 2009 but we obviously don't have any results as yet from those wells. That sampling will happen in the next week and we will forward those results to OCD and the City of Lovington as soon as we get them.

On a similar note, the permit asks for a 2008 Groundwater and Monitoring Report due April 15, 2009. As above, we have extremely limited sampling data so a Groundwater Monitoring Report this year is impossible. However, the new wells will be put on a quarterly sampling schedule and we will have data for a report for 2009.

As you know, we are also required to provide an Environmental Status Report to OCD and the City of Lovington within 9 months of permit issuance. That puts the report due at October 11, 2009. By that time we will have several sampling episodes to give us a handle on what, if anything, is happening at the refinery.

If there are any questions concerning this submission, please call me at 575-746-5281.

Sincerely,
NAVAJO REFINING COMPANY, LLD

Darrell Moore

Darrell Moore
Environmental Manager for Water and Waste

Encl.

Cc: Mike Laighton City of Lovington 214 S. Love Lovington, NM 88260

2008 ANNUAL REPORT
NAVAJO REFINING COMPANY- LEA REFINERY
DISCHARGE PERMIT GW-014

EXECUTIVE SUMMARY

This report is being written as a requirement of Lea Refining Company's Discharge Permit GW-014 which states that an Annual Report will be written by April 15 of each year and will include at a minimum :

- A. A summary of all major refinery activities or events.
- B. Results of all sampling or monitoring events.
- C. Summary of all waste and wastewater disposed of, sold or treated on-site.
- D. Summary of the sump and underground wastewater lines tested.
- E. Summary of all leaks, spills, and releases and or contamination or threat to the City of Lovington Well Head Protection Area.
- F. Summary of discovery of new groundwater contamination.
- G. Summary and copy of all City of Lovington and OCD Activity.

2008 saw the Lea Plant expand from a 50,000 barrel per day (bpd) Crude Unit to a 75,000 bpd Crude Unit. This expansion included adding exchangers, charge pumps, boiler, fin fans, drums and coalescers to debottleneck the plant. We also increased the amount of water that we can recycle through the desalter thus saving fresh water.

Due to the drop in water level in our monitor wells, which are being deepened as part of this discharge permit, our sampling has been limited. However, we have been able to sample our in plant water wells and some monitor wells when water levels are high enough. The sampling of our in plant water wells has shown some hits of volatiles in the South Well. This well is the furthest well from our API source with the North Well directly between it and the source. The North Well has shown no hits.

Lovington shipped a total of 625 yards of non hazardous waste to CRI. This included trash and debris, blast sand, asphalt, charcoal filter, and crude contaminated soil. We also shipped 380 tanker loads of Spent Caustic to Lotus LTD.

As part of our ongoing work, we test 20% of the sumps and underground wastewater lines every year. By doing this, we ensure that all lines are tested every 5 years. A

spreadsheet and analysis is included later in this report that summarizes those test results and any repairs that were necessary.

During 2008, Lea Refining had one recordable spill. This occurred on July 10, 2008. Approximately 150 bbls of spent caustic was released due to a faulty valve. 120 bbls of this caustic was recovered by vacuum truck. The C-141 from that spill is included.

We found no new groundwater contamination during 2008. As part of this discharge plan, we are deepening eleven monitor and recovery wells. At the time of this report, eight of those wells have been completed with the final three to be completed by April 18. We have found no new contamination in any of these wells. However, the contamination near the API that was discovered in 1996 remains and is prevalent in the deepened MW-1. MW-5, MW-7, and RW-1 are yet to be completed. We suspect there will be contamination in MW-7 and RW-1 also.

The only other activity that we have with the City of Lovington is our monthly samples of our wastewater that goes to the Lovington POTW. Those results are included.

MAJOR REFINERY ACTIVITIES

In 2008, Lea Refining started construction of several projects that will turn the Crude Unit at Lea from a 50,000 barrel per day (bpd) unit to a 75,000 bpd unit. These upgrades include charge pumps to meet this demand, two new exchangers, a new boiler, pumps and piping to recycle water from the Desalter, a coalescer between the desalter and the sour water stripper to catch oil before the sour water stripper, and several new fin fans to help with cooling.

While none of this work was completed in 2008, the majority of the construction occurred in 2008. The unit was restarted in March 2009 and was sending topped hydrocarbons to the Artesia plant for further processing.

RESULTS OF SAMPLING AND MONITORING EVENTS

As was mentioned previously, we are in the process of deepening eleven new monitor wells at the Lea Refinery. Our goal was to have all wells installed by the time of this report but rig availability made that impossible. At the time of this report we have completed MW-2, MW-4, MW-10, MW-9, MW-3, MW-8, MW-6, and MW-1. (See map) MW-1 has hydrocarbons from about top to bottom as we suspected it would. MW-7 and RW-1 will probably also have hydrocarbons. Those three wells will be 4" wells and will be used as recovery wells. All wells will be developed and sampled and those results will be forwarded to OCD and the City of Lovington as soon as we receive them. That should be within the next two weeks.

We do have analysis from our in plant water wells and from MW-6R and MW-5. Those results are included. (Attachment 1) Although sampling the in plant water wells was

never required by OCD, Navajo started this sampling on our own just to be sure that the wells were not being impacted by the spill at the API. If you take a look at the water well results, the south well in December 2008 had detectable toluene and ethylbenzene plus very high levels of chloride and TDS. This well is downgradient from the API and the north well and in fact is the water well most distant from the API. (See map) The well may be pulling in contamination from another source.

SUMMARY OF WASTE DISPOSAL

By far Lea Refining's largest waste volume was spent caustic from the Caustic Scrubber. This caustic is sent to Lotus Limited (Lotus) which is a facility in Andrews County, Texas that sends the caustic down injection wells. We sent a total of 380 tanker loads of spent caustic to Lotus in 2008. We also shipped 625 yards of non-hazardous waste to CRI. This breakdown is as follows: 480 yards of Trash and debris; 36 yards of Blast sand; 24 yards of asphalt contaminated soil; 12 yards of charcoal filter; 73 yards of crude oil contaminated soil;

SUMMARY OF SUMP AND UNDERGROUND WASTEWATER LINES TESTED

As part of Lovington's Discharge Permit, we are required to test all sumps and underground process/wastewater lines. It is Navajo's policy to fill the sump or line with water, mark a level, and then wait 4 hours and note any drop in water level.

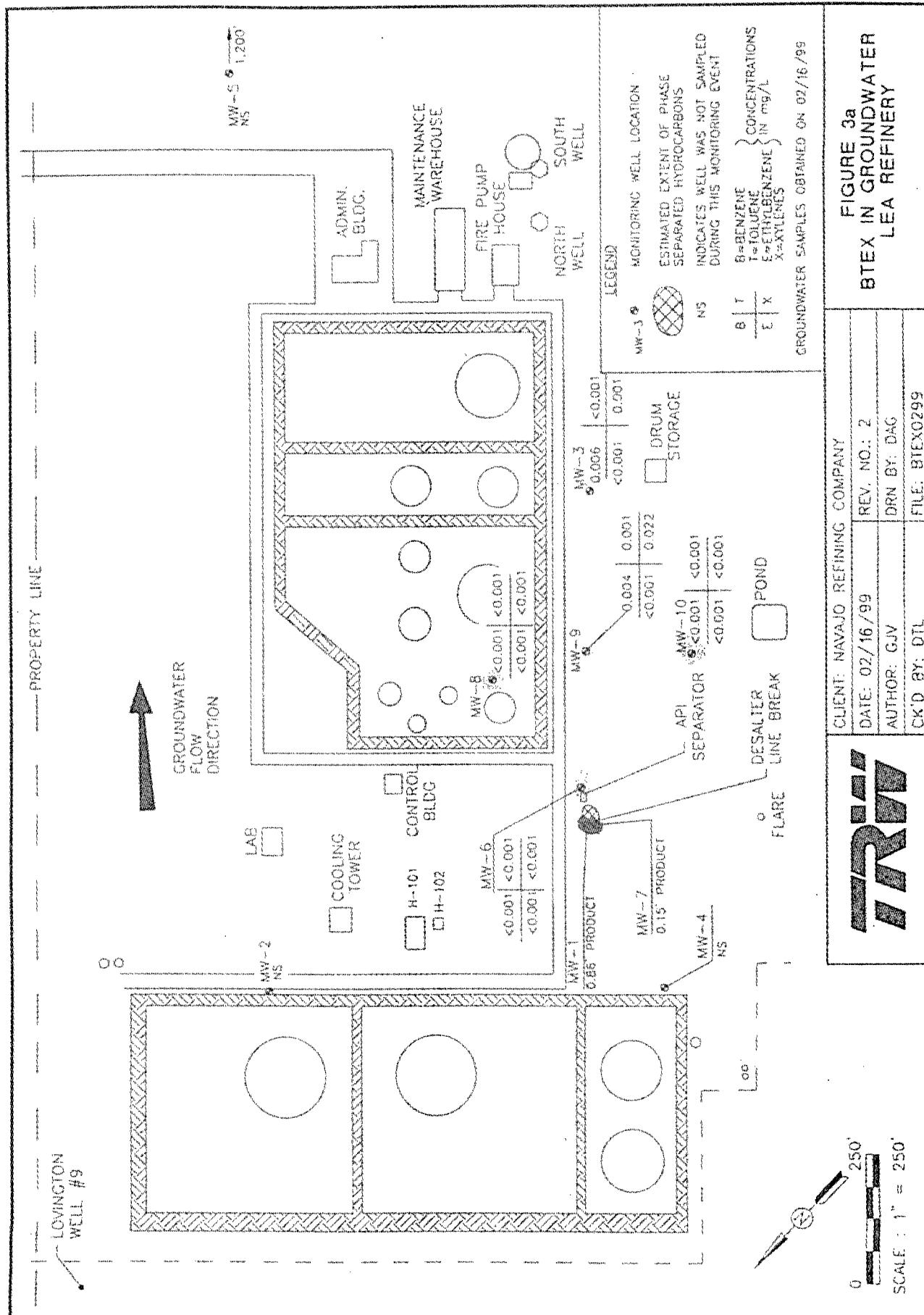
Enclosed, is a spreadsheet, titled **NAVAJO REFINING COMPANY LOVINGTON REFINERY SEWER TESTING (Table 1)** and also a spreadsheet titled **NAVAJO REFINING COMPANY LOVINGTON REFINERY LISTING OF ALL SUMPS (Table 2)**. These spreadsheets detail test date, test method, pass/fail, tested by, and any repairs that were needed or made to the applicable sump or sewer. These spreadsheets are just the summary of the testing we do. The actual test pages, sign off sheets, etc. are kept in a file at the refinery for inspection by OCD as our permit requires.

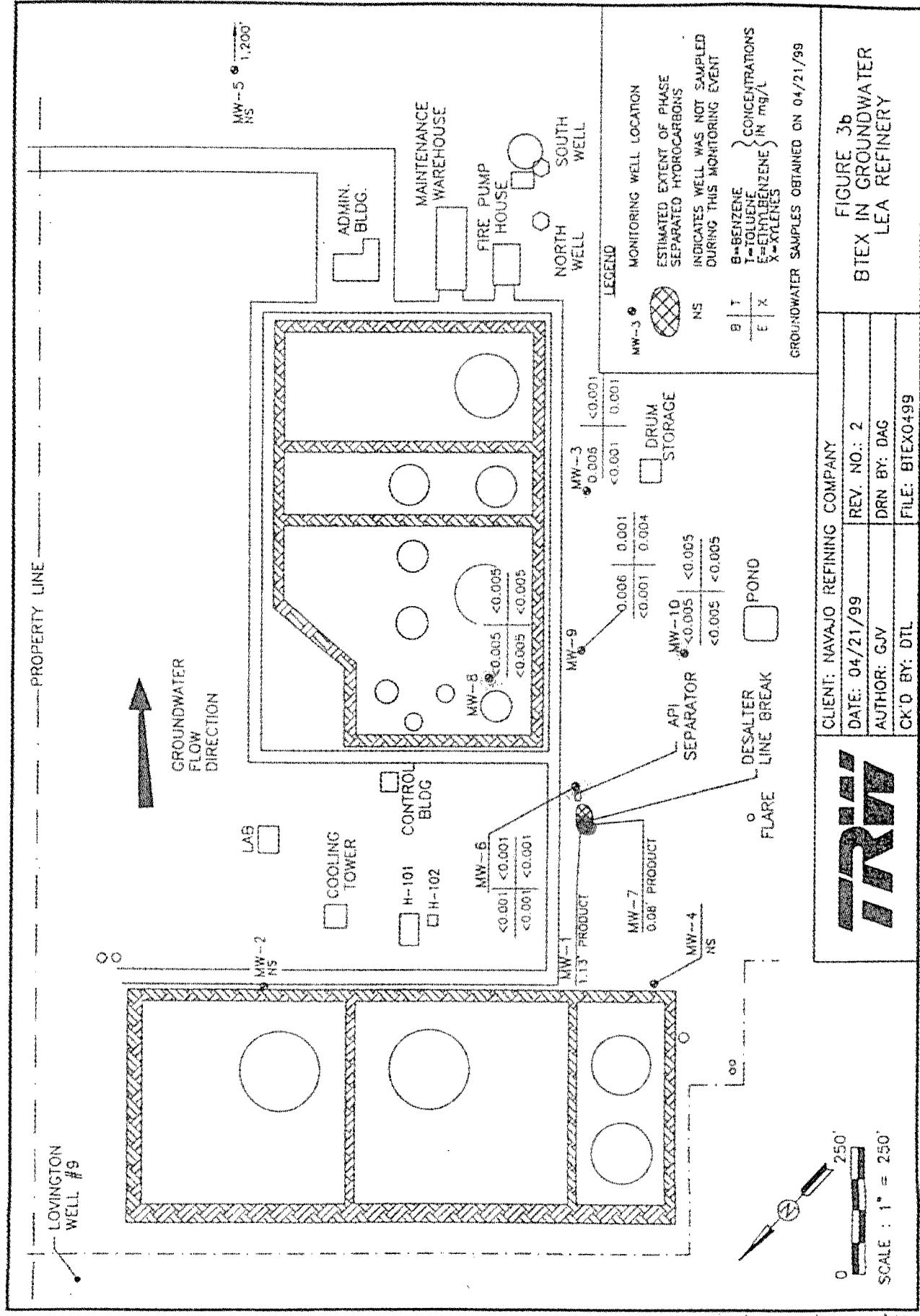
You will note on the second spreadsheet that there are eleven sumps that Navajo designates as Out of Service Backfill and Cap. These sumps have been tested and they all passed. Unless we receive an objection from OCD, it is our intention to backfill these sumps with concrete and remove them from this list.

SUMMARY OF ALL LEAKS, SPILLS, AND RELEASES

Lovington had one spill in 2008. On July 10, 2008, approximately 150 bbls of spent caustic was released due to a faulty valve. 120 bbls was recovered by vacuum truck. The C-141 from that event is included as Attachment 2.

We have also included an updated map of the facility with locations of monitor wells, water wells, bundle pad, and chemical storage area. Attachment 3 We will update this





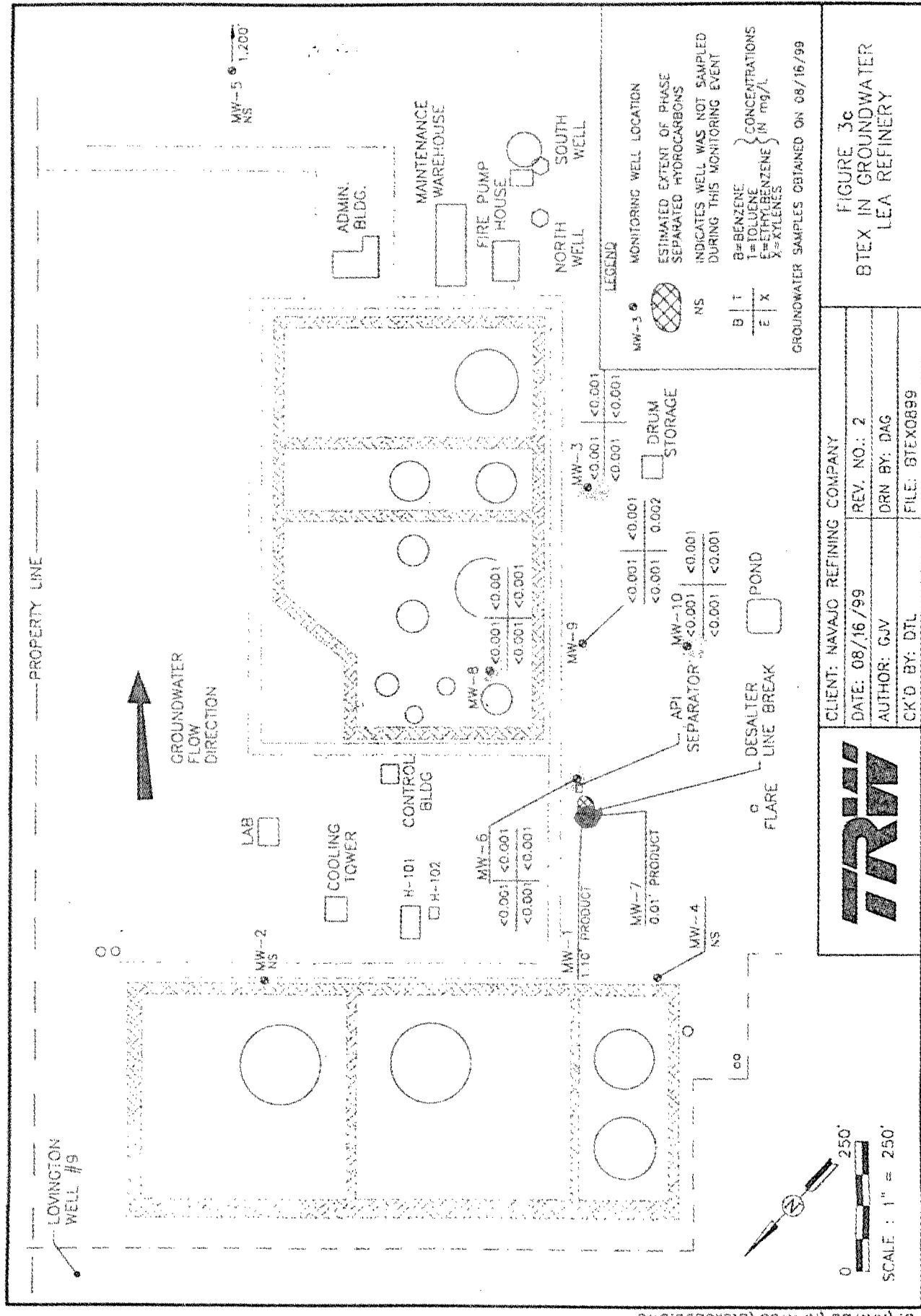


FIGURE 3C
BTEX IN GROUNDWATER
LEA REFINERY

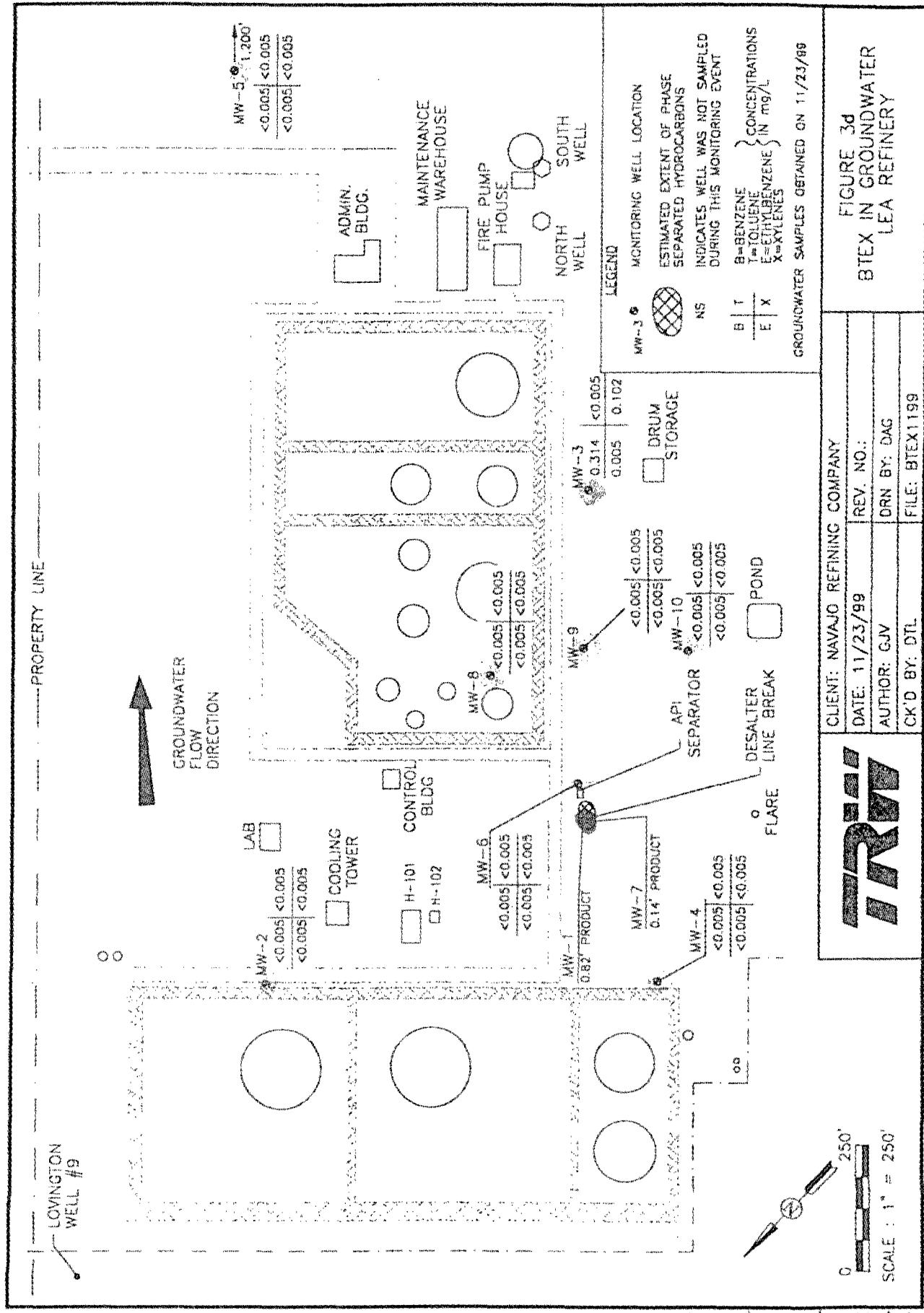
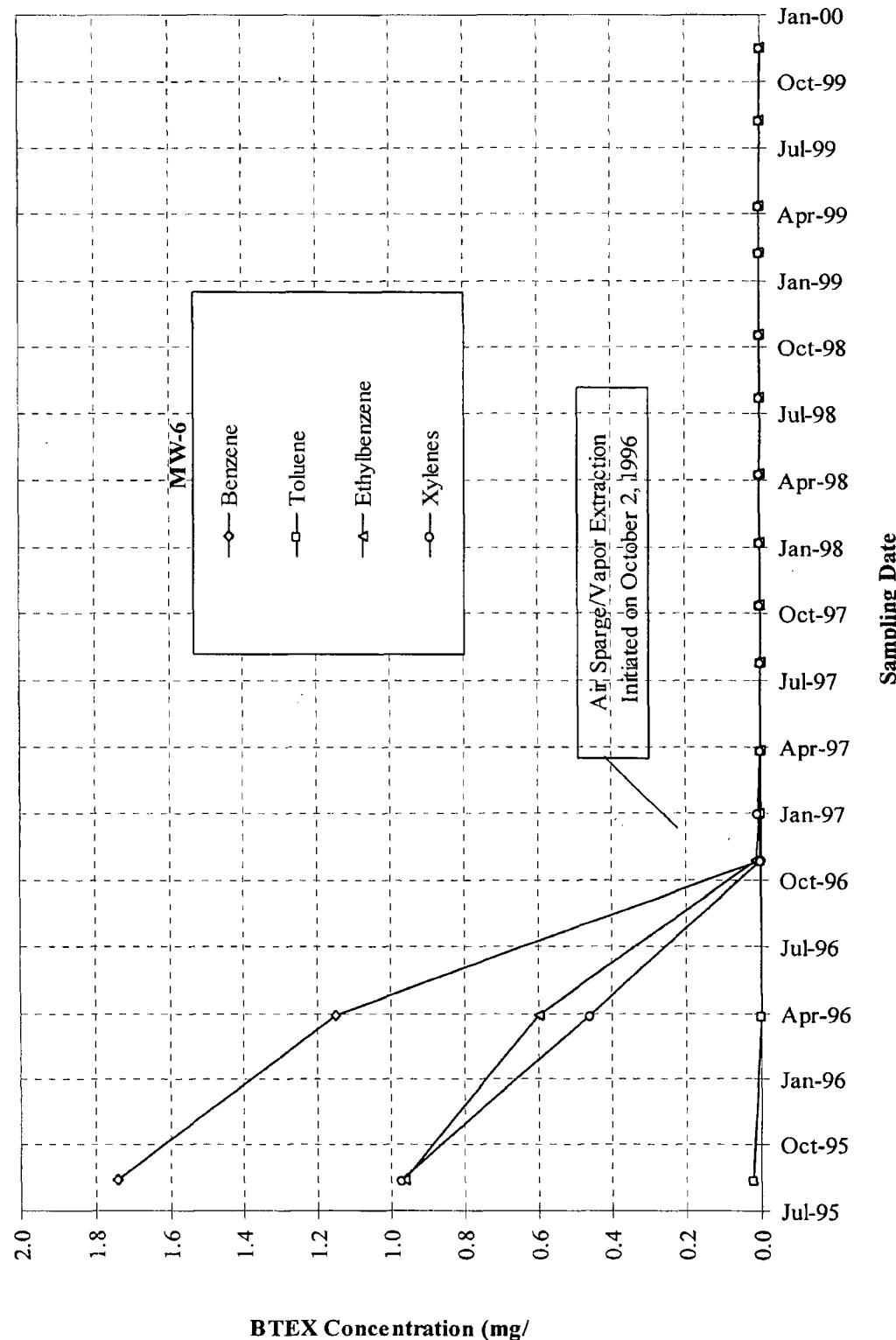


FIGURE 3d
BTEX IN GROUNDWATER
LEA REFINERY

FIGURE 4a

BTEX CONCENTRATION VERSUS TIME (MW-6)



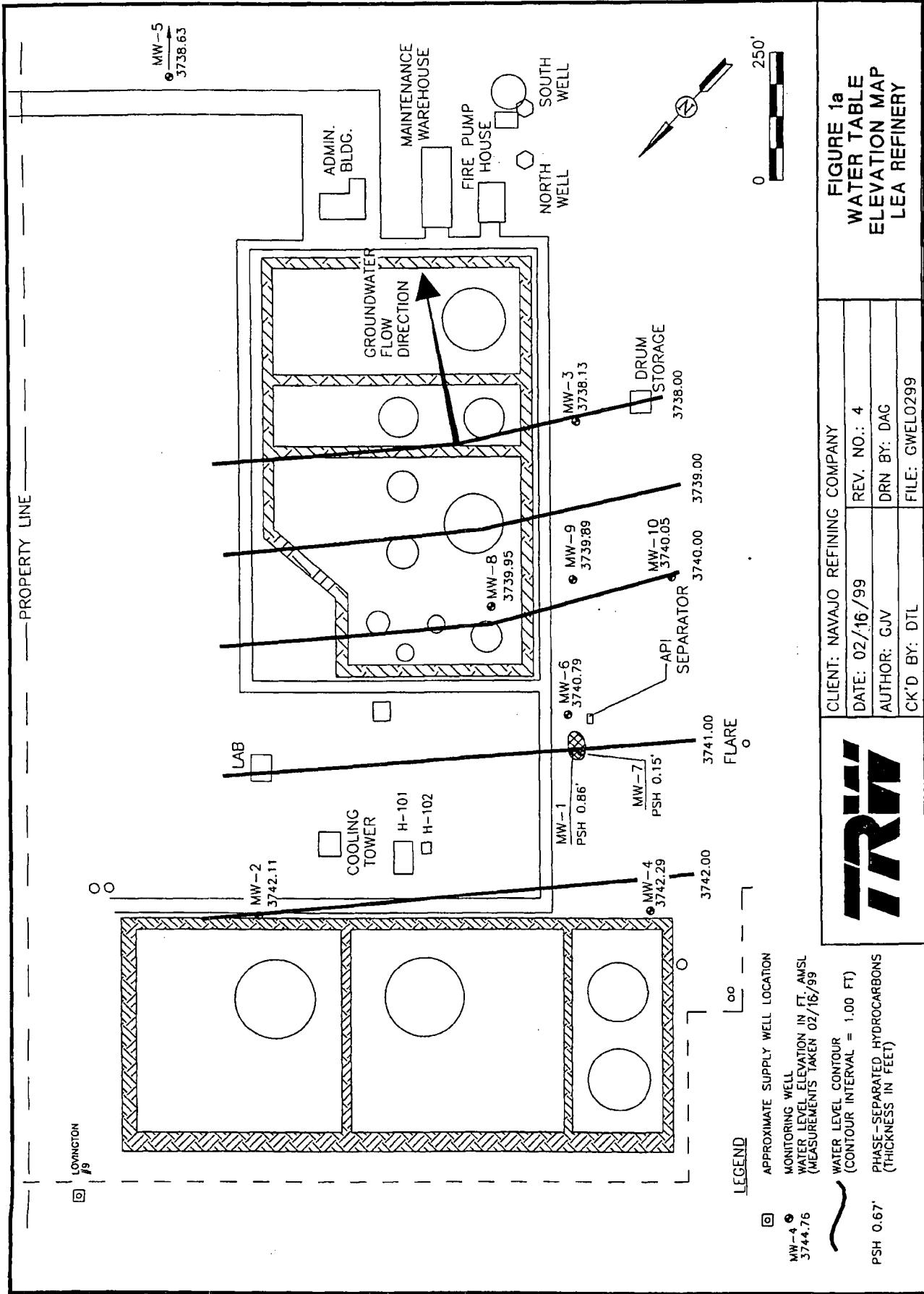


FIGURE 1a
WATER TABLE
ELEVATION MAP
LEA REFINERY

CLIENT: NAVAJO REFINING COMPANY
DATE: 02/16/99
REV. NO.: 4
DRN BY: DAG
AUTHOR: GJV
FILE: GWEL0299



WATER LEVEL CONTOUR
(CONTOUR INTERVAL = 1.00 FT)

PHASE-SEPARATED HYDROCARBONS
(THICKNESS IN FEET)

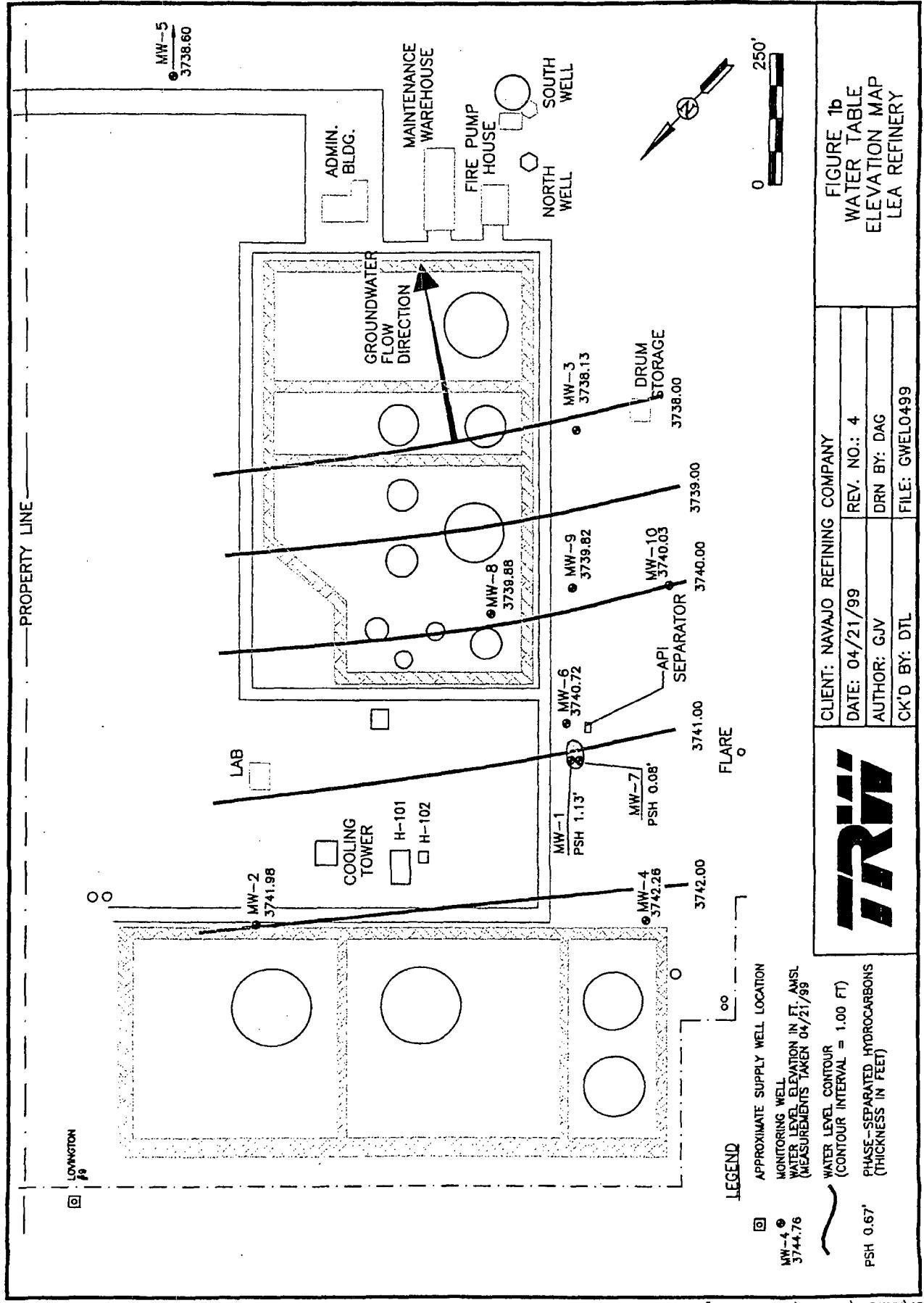
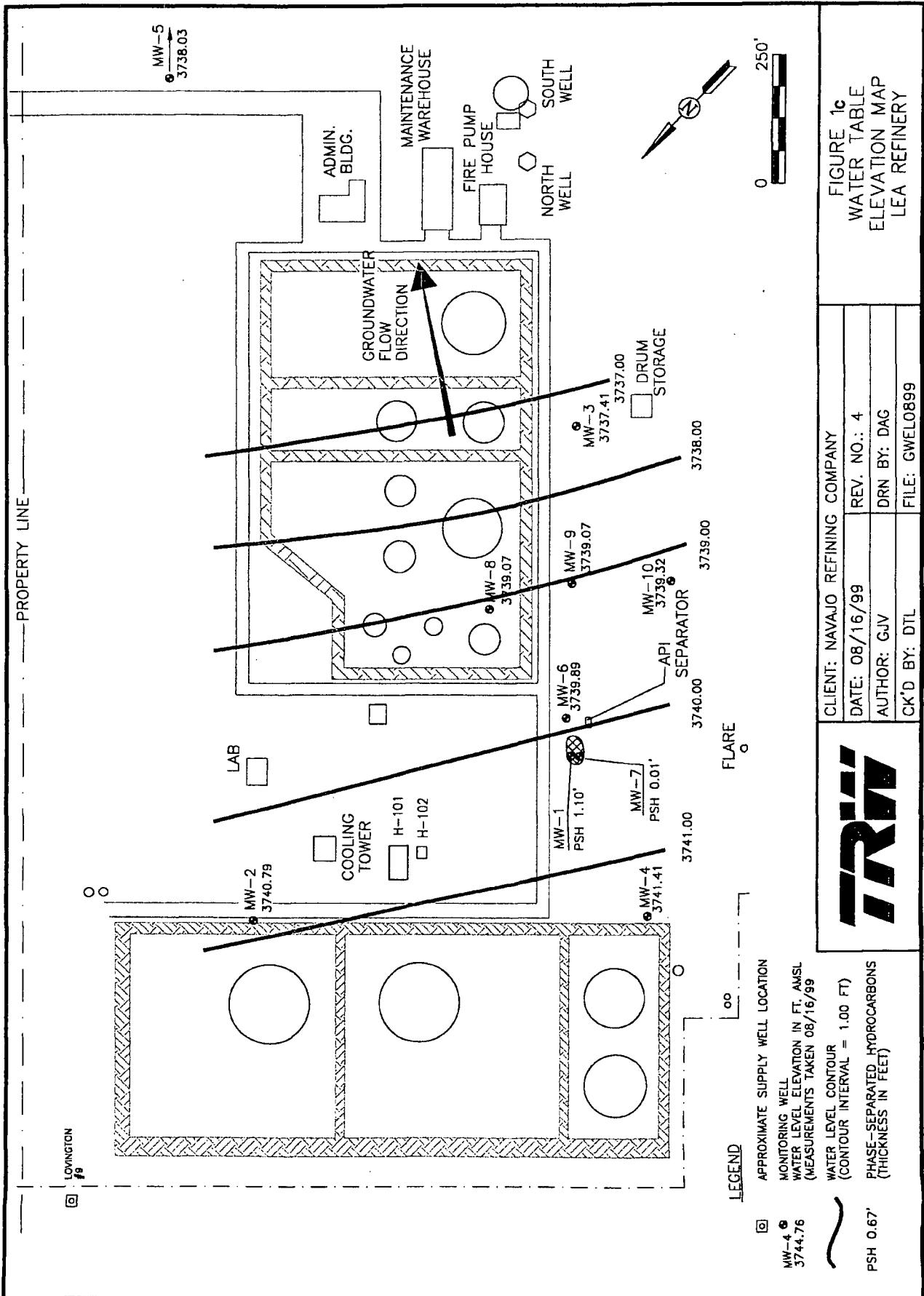


FIGURE 1b
WATER TABLE
ELEVATION MAP
LEA REFINERY



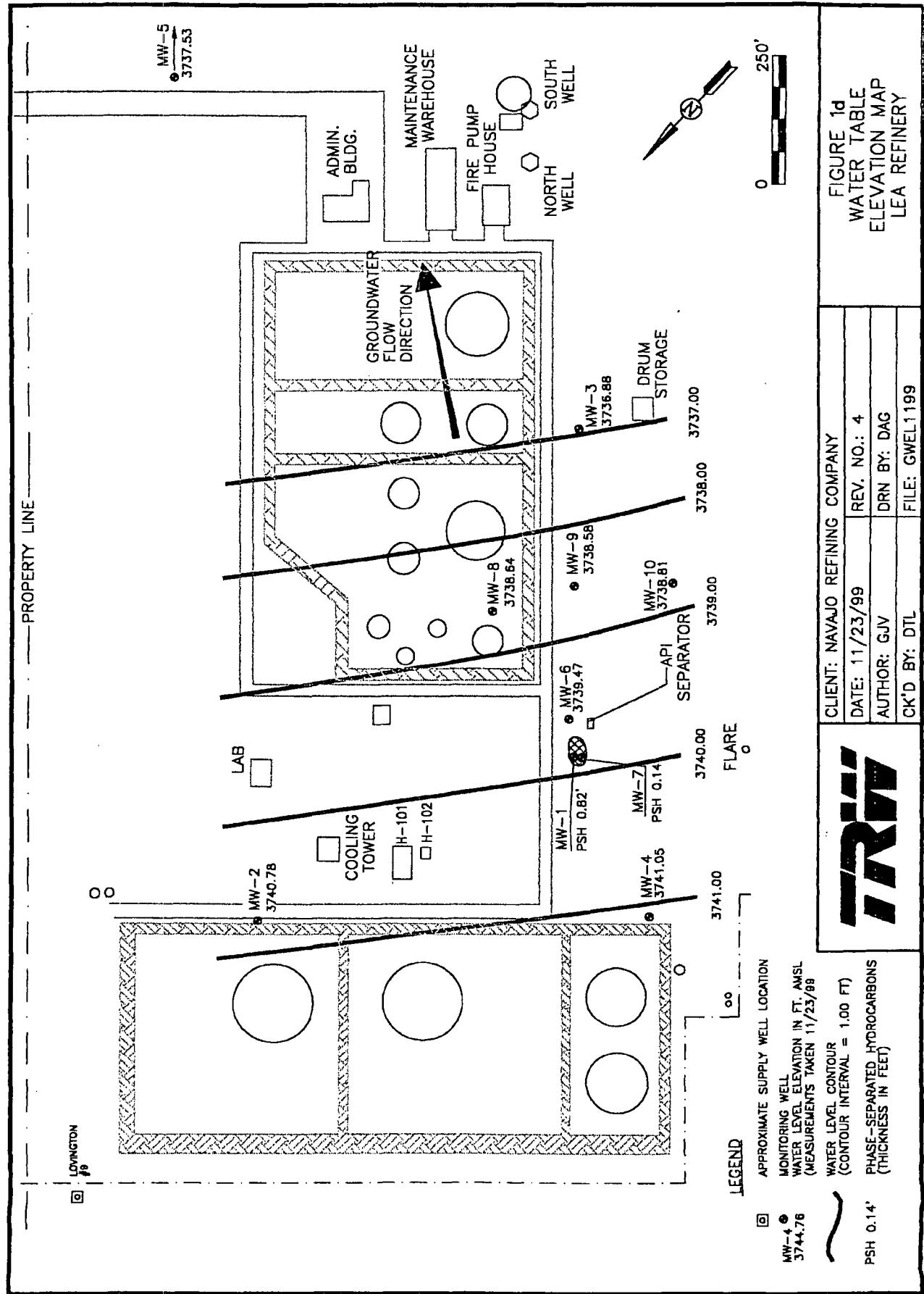
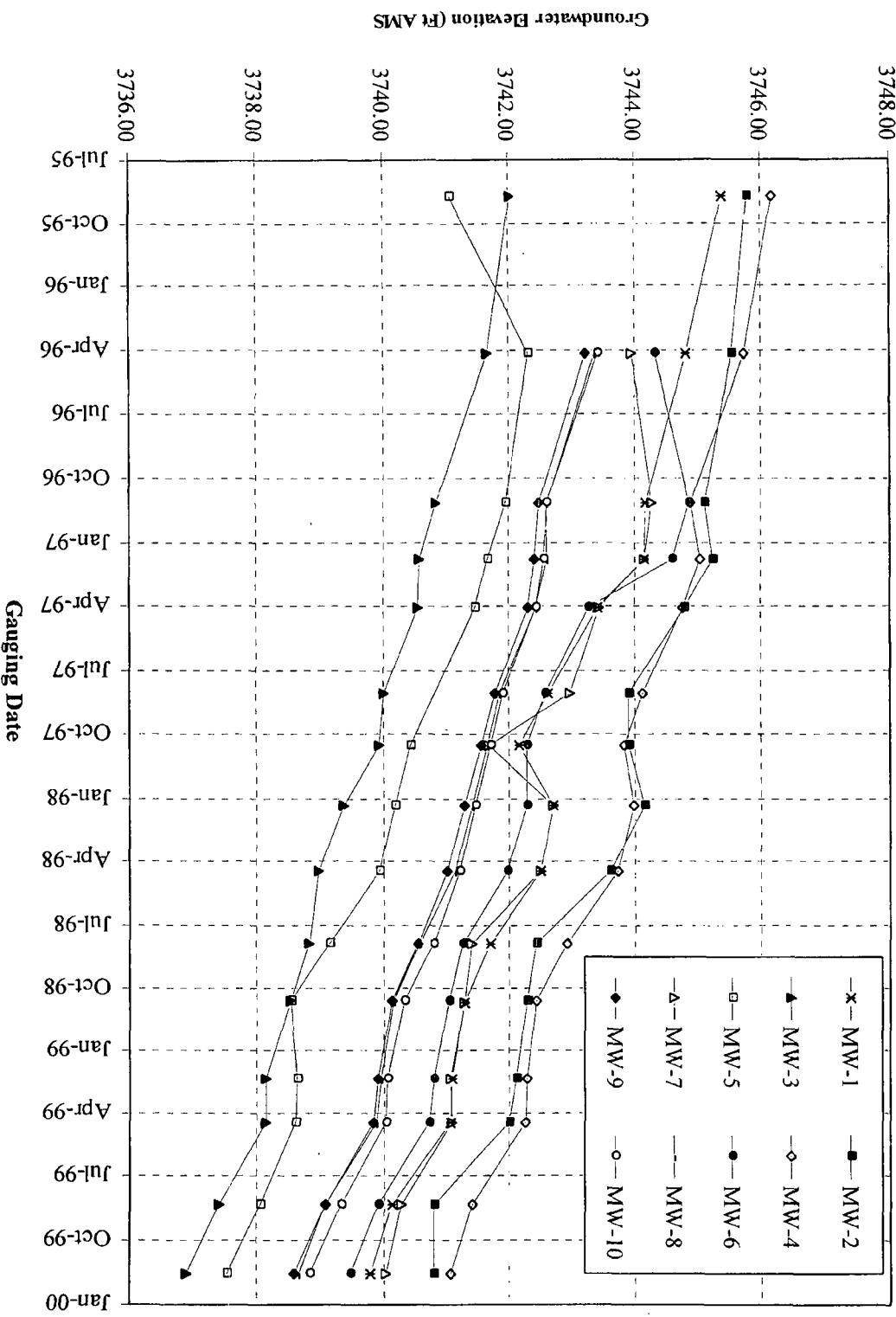


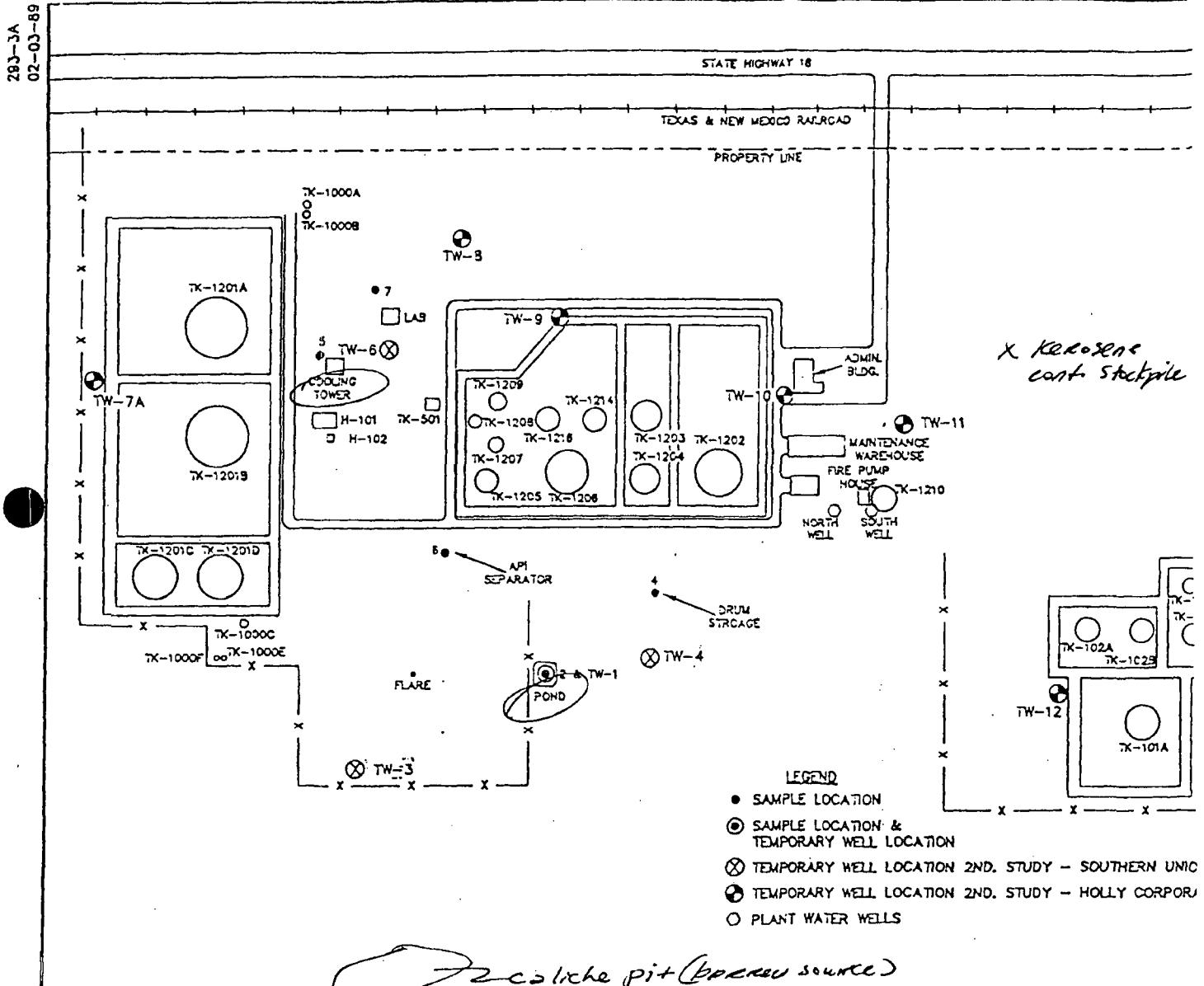
FIGURE 1d
WATER TABLE
ELEVATION MAP
LEA REFINERY

FIGURE 2

WATER TABLE ELEVATION VERSUS TIME

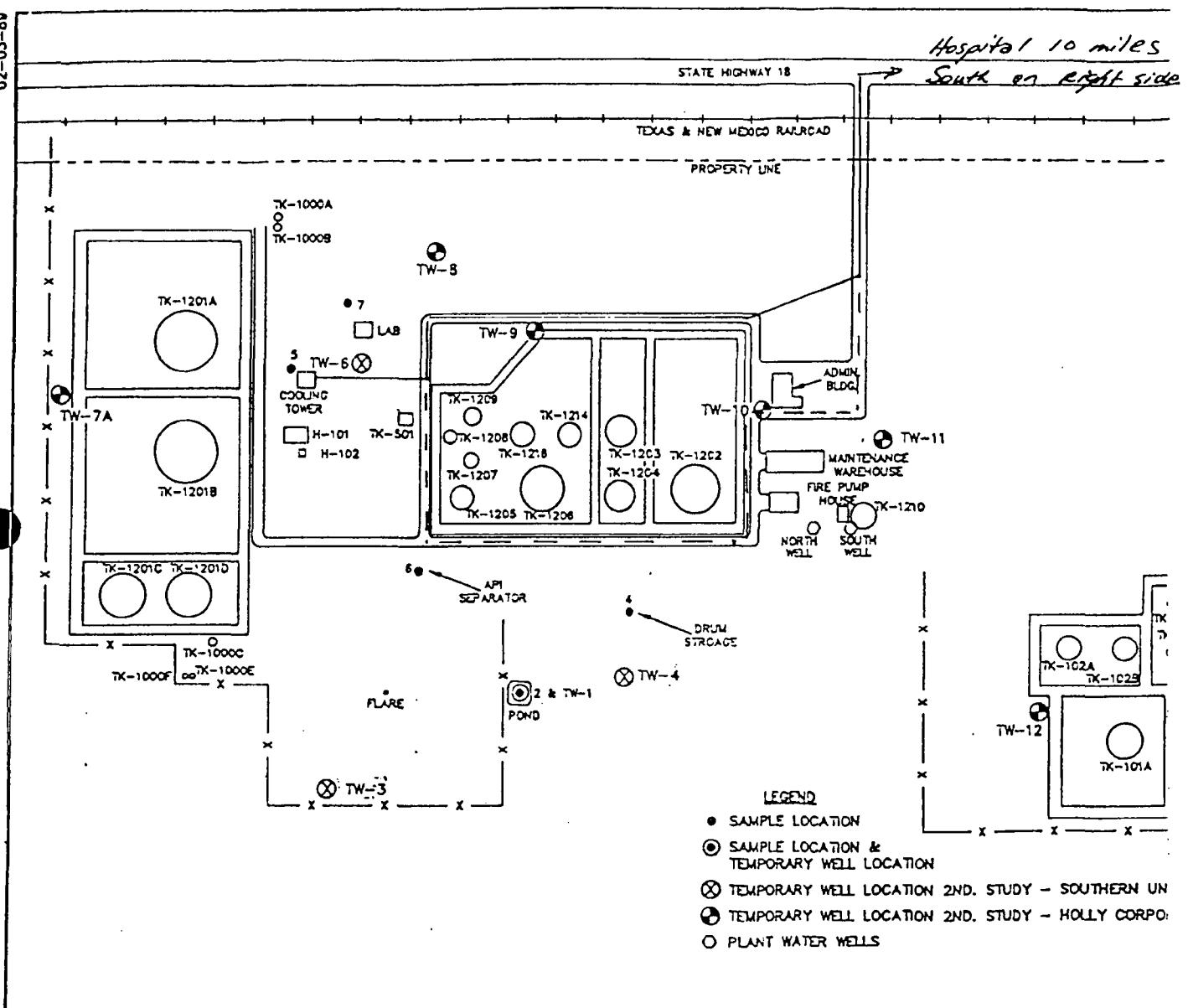


ENCLOSURE 3 WORK ZONE MAP



SITE LAYOUT (INCLUDE COPY OF SITE MAP
INCLUDING OPERATING AREAS)

293-3A
02-01-89



Evacuation Route

Alternate Route

map further by June 30, 2009 as per the discharge permit to include oil and gas transmission lines also. Navajo is in the process of laying new lines from Lovington to our Artesia plant and those will be included.

SUMMARY OF NEW GROUNDWATER CONTAMINATION

As was mentioned before, we are deepening the monitor wells at Lovington as I write this. Preliminarily, we have found no new contamination in the wells we have completed. We did find contamination in MW-1 but that is historically where the contamination has always been. We should finish drilling the new monitor wells by April 18, 2009. We will then develop and sample the wells and send those analytical results to OCD and the City of Lovington. That should be completed within three weeks.

As part of the discharge permit, we are also required to delineate five historical spills at Lea Refining. We prioritized the deepening of the monitor wells to get that done first. After the wells are finished, we will move the drilling rig to this phase. Our plan is to drill several locations within these historical spill areas and sample as we drill until we get to clean soil. This will give us definite data as to the horizontal and vertical extent of any contamination. We should have this delineation finished by April 31, 2009. We will forward those results to OCD and the City of Lovington at that time.

SUMMARY AND COPY OF ALL CITY OF LOVINGTON AND OCD ACTIVITY

Though not required by any permit, Navajo samples our wastewater to the City of Lovington POTW monthly. Those 12 monthly sampling analysis' are included.
Attachment 4 That is the only other activity we have with the City of Lovington.

We have included a map of the facility. This map will be updated by June 30, 2009 per the discharge permit.

ATTACHMENT 1

e-Lab Analytical, Inc.*Date: April 04, 2008*

Client: Navajo Refining Company
Project: Navajo-Lea Refinery
Work Order: 0803532

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0803532-01	MW# 6R	Water		3/26/2008 11:00	3/28/2008 09:20	<input type="checkbox"/>
0803532-02	East Well	Water		3/26/2008 11:30	3/28/2008 09:20	<input type="checkbox"/>
0803532-03	North Well	Water		3/26/2008 11:45	3/28/2008 09:20	<input type="checkbox"/>
0803532-04	South Well	Water		3/26/2008 11:55	3/28/2008 09:20	<input type="checkbox"/>
0803532-05	Trip Blank	Water		3/26/2008 11:55	3/28/2008 09:20	<input checked="" type="checkbox"/>

e-Lab Analytical, Inc.

Date: April 04, 2008

Client: Navajo Refining Company**Project:** Navajo-Lea Refinery**Work Order:** 0803532**Sample ID:** MW# 6R**Lab ID:** 0803532-01**Collection Date:** 3/26/2008 11:00:00 AM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER						
Benzene	ND		0.0010	mg/L	1	4/4/2008 10:22:00 AM
Toluene	ND		0.0010	mg/L	1	4/4/2008 10:22:00 AM
Ethylbenzene	0.0052		0.0010	mg/L	1	4/4/2008 10:22:00 AM
Xylenes, Total	ND		0.0030	mg/L	1	4/4/2008 10:22:00 AM
<i>Surr: 4-Bromofluorobenzene</i>	108		77-129	%REC	1	4/4/2008 10:22:00 AM
<i>Surr: Trifluorotoluene</i>	102		75-130	%REC	1	4/4/2008 10:22:00 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: April 04, 2008

Client: Navajo Refining Company**Project:** Navajo-Lea Refinery**Work Order:** 0803532**Sample ID:** East Well**Lab ID:** 0803532-02**Collection Date:** 3/26/2008 11:30:00 AM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER						
Benzene	ND		0.0010	mg/L	1	4/4/2008 9:56:00 AM
Toluene	ND		0.0010	mg/L	1	4/4/2008 9:56:00 AM
Ethylbenzene	ND		0.0010	mg/L	1	4/4/2008 9:56:00 AM
Xylenes, Total	ND		0.0030	mg/L	1	4/4/2008 9:56:00 AM
Surr: 4-Bromofluorobenzene	88.0		77-129	%REC	1	4/4/2008 9:56:00 AM
Surr: Trifluorotoluene	95.9		75-130	%REC	1	4/4/2008 9:56:00 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.**Date:** April 04, 2008**Client:** Navajo Refining Company**Project:** Navajo-Lea Refinery**Work Order:** 0803532**Sample ID:** North Well**Lab ID:** 0803532-03**Collection Date:** 3/26/2008 11:45:00 AM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER						
Benzene	ND		0.0010	mg/L	1	4/4/2008 9:29:00 AM
Toluene	ND		0.0010	mg/L	1	4/4/2008 9:29:00 AM
Ethylbenzene	ND		0.0010	mg/L	1	4/4/2008 9:29:00 AM
Xylenes, Total	ND		0.0030	mg/L	1	4/4/2008 9:29:00 AM
<i>Surr: 4-Bromofluorobenzene</i>	90.0		77-129	%REC	1	4/4/2008 9:29:00 AM
<i>Surr: Trifluorotoluene</i>	97.2		75-130	%REC	1	4/4/2008 9:29:00 AM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: April 04, 2008

Client: Navajo Refining Company**Project:** Navajo-Lea Refinery**Sample ID:** South Well**Collection Date:** 3/26/2008 11:55:00 AM**Work Order:** 0803532**Lab ID:** 0803532-04**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER						
Benzene	ND		0.0010	mg/L	1	4/4/2008 9:03:00 AM
Toluene	ND		0.0010	mg/L	1	4/4/2008 9:03:00 AM
Ethylbenzene	ND		0.0010	mg/L	1	4/4/2008 9:03:00 AM
Xylenes, Total	ND		0.0030	mg/L	1	4/4/2008 9:03:00 AM
<i>Surr: 4-Bromofluorobenzene</i>	92.4		77-129	%REC	1	4/4/2008 9:03:00 AM
<i>Surr: Trifluorotoluene</i>	97.7		75-130	%REC	1	4/4/2008 9:03:00 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

ALS Laboratory Group

Date: 02-Oct-08

Client: Navajo Refining Company
Project: Navajo Lovington
Work Order: 0809448

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0809448-01	MW #6R	Water		9/24/2008 10:50	9/26/2008 10:05	<input type="checkbox"/>
0809448-02	North Well	Water		9/24/2008 13:20	9/26/2008 10:05	<input type="checkbox"/>
0809448-03	South Well	Water		9/24/2008 13:40	9/26/2008 10:05	<input type="checkbox"/>
0809448-04	East Well	Water		9/24/2008 14:00	9/26/2008 10:05	<input type="checkbox"/>
0809448-05	Trip Blank	Water		9/24/2008 14:00	9/26/2008 10:05	<input type="checkbox"/>

ALS Laboratory Group

Date: 02-Oct-08

Client: Navajo Refining Company**Project:** Navajo Lovington**Sample ID:** MW #6R**Collection Date:** 9/24/2008 10:50 AM**Work Order:** 0809448**Lab ID:** 0809448-01**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER						
Benzene	ND		0.0010	mg/L	1	10/2/2008 07:59 AM
Toluene	ND		0.0010	mg/L	1	10/2/2008 07:59 AM
Ethylbenzene	ND		0.0010	mg/L	1	10/2/2008 07:59 AM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	10/2/2008 07:59 AM
Xylenes, Total	ND		0.0030	mg/L	1	10/2/2008 07:59 AM
<i>Surr: 4-Bromofluorobenzene</i>	107		77-129	%REC	1	10/2/2008 07:59 AM
<i>Surr: Trifluorotoluene</i>	108		75-130	%REC	1	10/2/2008 07:59 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: 02-Oct-08

Client: Navajo Refining Company**Project:** Navajo Lovington**Sample ID:** North Well**Collection Date:** 9/24/2008 01:20 PM**Work Order:** 0809448**Lab ID:** 0809448-02**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER						
Benzene	ND		0.0010	mg/L	1	10/1/2008 06:43 PM
Toluene	ND		0.0010	mg/L	1	10/1/2008 06:43 PM
Ethylbenzene	ND		0.0010	mg/L	1	10/1/2008 06:43 PM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	10/1/2008 06:43 PM
Xylenes, Total	ND		0.0030	mg/L	1	10/1/2008 06:43 PM
<i>Surr: 4-Bromofluorobenzene</i>	95.3		77-129	%REC	1	10/1/2008 06:43 PM
<i>Surr: Trifluorotoluene</i>	102		75-130	%REC	1	10/1/2008 06:43 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: 02-Oct-08

Client: Navajo Refining Company**Project:** Navajo Lovington**Sample ID:** South Well**Collection Date:** 9/24/2008 01:40 PM**Work Order:** 0809448**Lab ID:** 0809448-03**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER						
Benzene	ND		0.0010	mg/L	1	10/1/2008 07:10 PM
Toluene	ND		0.0010	mg/L	1	10/1/2008 07:10 PM
Ethylbenzene	ND		0.0010	mg/L	1	10/1/2008 07:10 PM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	10/1/2008 07:10 PM
Xylenes, Total	ND		0.0030	mg/L	1	10/1/2008 07:10 PM
<i>Surr: 4-Bromofluorobenzene</i>	99.9		77-129	%REC	1	10/1/2008 07:10 PM
<i>Surr: Trifluorotoluene</i>	108		75-130	%REC	1	10/1/2008 07:10 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group**Date:** 02-Oct-08**Client:** Navajo Refining Company**Project:** Navajo Lovington**Sample ID:** East Well**Collection Date:** 9/24/2008 02:00 PM**Work Order:** 0809448**Lab ID:** 0809448-04**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER						
Benzene	ND		0.0010	mg/L	1	10/1/2008 07:37 PM
Toluene	ND		0.0010	mg/L	1	10/1/2008 07:37 PM
Ethylbenzene	ND		0.0010	mg/L	1	10/1/2008 07:37 PM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	10/1/2008 07:37 PM
Xylenes, Total	ND		0.0030	mg/L	1	10/1/2008 07:37 PM
<i>Surr: 4-Bromofluorobenzene</i>	93.9		77-129	%REC	1	10/1/2008 07:37 PM
<i>Surr: Trifluorotoluene</i>	101		75-130	%REC	1	10/1/2008 07:37 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: 02-Oct-08

Client: Navajo Refining Company**Project:** Navajo Lovington**Work Order:** 0809448**Sample ID:** Trip Blank**Lab ID:** 0809448-05**Collection Date:** 9/24/2008 02:00 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER						
Benzene	ND		0.0010	mg/L	1	10/2/2008 04:05 AM
Toluene	ND		0.0010	mg/L	1	10/2/2008 04:05 AM
Ethylbenzene	ND		0.0010	mg/L	1	10/2/2008 04:05 AM
Xylenes, Total	ND		0.0030	mg/L	1	10/2/2008 04:05 AM
Surr: 4-Bromofluorobenzene	99.5		77-129	%REC	1	10/2/2008 04:05 AM
Surr: Trifluorotoluene	107		75-130	%REC	1	10/2/2008 04:05 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation



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Chain of Custody Form

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Page _____ of _____

Customer Information

ote: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.

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ALS Laboratory Group

Date: 14-Jan-09

Client: Navajo Refining Company
Project: Lovington Refining-Annual
Work Order: 0812626

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0812626-01	MW-6R	Water		12/30/2008 11:45	12/31/2008 09:00	<input type="checkbox"/>
0812626-02	South Well	Water		12/29/2008 13:55	12/31/2008 09:00	<input type="checkbox"/>
0812626-03	North Well	Water		12/29/2008 13:45	12/31/2008 09:00	<input type="checkbox"/>
0812626-04	East Well	Water		12/30/2008 15:20	12/31/2008 09:00	<input type="checkbox"/>
0812626-05	MW-5	Water		12/30/2008 14:40	12/31/2008 09:00	<input type="checkbox"/>
0812626-06	Trip Blank 120808-83	Water		12/30/2008 15:30	12/31/2008 09:00	<input type="checkbox"/>
0812626-07	Trip Blank 120808-45	Water		12/30/2008 15:20	12/31/2008 09:00	<input type="checkbox"/>

ALS Laboratory Group
Date: 14-Jan-09

Client: Navajo Refining Company
Project: Lovington Refining-AnNUAL
Sample ID: MW-6R
Collection Date: 12/30/2008 11:45 AM

Work Order: 0812626
Lab ID: 0812626-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX						
Benzene	ND		0.0010	mg/L	1	1/1/2009 02:19 AM
Toluene	0.0011		0.0010	mg/L	1	1/1/2009 02:19 AM
Ethylbenzene	ND		0.0010	mg/L	1	1/1/2009 02:19 AM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	1/1/2009 02:19 AM
Xylenes, Total	ND		0.0030	mg/L	1	1/1/2009 02:19 AM
<i>Surr: 4-Bromofluorobenzene</i>	96.9		77-129	%REC	1	1/1/2009 02:19 AM
<i>Surr: Trifluorotoluene</i>	124		75-130	%REC	1	1/1/2009 02:19 AM
MERCURY						
Mercury	ND		0.000200	mg/L	1	1/14/2009 02:09 PM
DISSOLVED METALS						
Aluminum	ND		0.0100	mg/L	1	1/8/2009 04:41 PM
Arsenic	0.0173		0.00500	mg/L	1	1/8/2009 04:41 PM
Barium	0.348		0.00500	mg/L	1	1/8/2009 04:41 PM
Boron	0.235		0.0200	mg/L	1	1/8/2009 04:41 PM
Cadmium	ND		0.00200	mg/L	1	1/8/2009 04:41 PM
Calcium	151		0.500	mg/L	1	1/8/2009 04:41 PM
Chromium	ND		0.00500	mg/L	1	1/8/2009 04:41 PM
Cobalt	ND		0.00500	mg/L	1	1/8/2009 04:41 PM
Copper	ND		0.00500	mg/L	1	1/8/2009 04:41 PM
Iron	ND		0.200	mg/L	1	1/8/2009 04:41 PM
Lead	ND		0.00500	mg/L	1	1/8/2009 04:41 PM
Magnesium	19.7		0.200	mg/L	1	1/8/2009 04:41 PM
Manganese	3.34		0.250	mg/L	50	1/9/2009 02:59 PM
Molybdenum	ND		0.00500	mg/L	1	1/8/2009 04:41 PM
Nickel	0.00982		0.00500	mg/L	1	1/8/2009 04:41 PM
Potassium	2.23		0.200	mg/L	1	1/8/2009 04:41 PM
Selenium	ND		0.00500	mg/L	1	1/8/2009 04:41 PM
Silver	ND		0.00500	mg/L	1	1/8/2009 04:41 PM
Sodium	124		0.200	mg/L	1	1/8/2009 04:41 PM
Zinc	0.0679		0.00500	mg/L	1	1/8/2009 04:41 PM
ANIONS						
Chloride	186		5.00	mg/L	10	1/5/2009 11:04 AM
Fluoride	0.133		0.100	mg/L	1	12/31/2008 12:51 PM
Sulfate	70.1		5.00	mg/L	10	12/31/2008 02:01 PM
Nitrate/Nitrite (as N)	0.247		0.100	mg/L	1	12/31/2008 12:51 PM
<i>Surr: Selenate (surr)</i>	100		85-115	%REC	10	1/5/2009 11:04 AM
<i>Surr: Selenite (surr)</i>	96.4		85-115	%REC	1	12/31/2008 12:51 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 a - Not accredited

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 n - Not offered for accreditation

ALS Laboratory Group

Date: 14-Jan-09

Client: Navajo Refining Company
Project: Lovington Refining-Annual
Sample ID: MW-6R
Collection Date: 12/30/2008 11:45 AM

Work Order: 0812626
Lab ID: 0812626-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Selenate (surr)	96.7		85-115	%REC	10	12/31/2008 02:01 PM
ALKALINITY			SM2320B			Analyst: DM
Alkalinity, Bicarbonate (As CaCO ₃)	446		5.00	mg/L	1	1/11/2009 06:30 PM
Alkalinity, Carbonate (As CaCO ₃)	ND		5.00	mg/L	1	1/11/2009 06:30 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND		5.00	mg/L	1	1/11/2009 06:30 PM
Alkalinity, Total (As CaCO ₃)	446		5.00	mg/L	1	1/11/2009 06:30 PM
PH			SM4500H+ B			Analyst: TDW
pH	6.51	H	0.100	pH units	1	12/31/2008 12:00 PM
TOTAL DISSOLVED SOLIDS			M2540C			Analyst: TDW
Total Dissolved Solids (Residue, Filterable)	766		10.0	mg/L	1	1/5/2009 01:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 a - Not accredited

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 n - Not offered for accreditation

ALS Laboratory Group

Date: 14-Jan-09

Client: Navajo Refining Company
Project: Lovington Refining-Anual
Sample ID: South Well
Collection Date: 12/29/2008 01:55 PM

Work Order: 0812626
Lab ID: 0812626-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX						
Benzene	ND		0.0010	mg/L	1	12/31/2008 05:06 PM
Toluene	0.0012		0.0010	mg/L	1	12/31/2008 05:06 PM
Ethylbenzene	0.0012		0.0010	mg/L	1	12/31/2008 05:06 PM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	12/31/2008 05:06 PM
Xylenes, Total	ND		0.0030	mg/L	1	12/31/2008 05:06 PM
<i>Surr: 4-Bromofluorobenzene</i>	94.3		77-129	%REC	1	12/31/2008 05:06 PM
<i>Surr: Trifluorotoluene</i>	115		75-130	%REC	1	12/31/2008 05:06 PM
MERCURY						
Mercury	ND		0.000200	mg/L	1	1/14/2009 01:57 PM
DISSOLVED METALS						
Aluminum	ND		0.0100	mg/L	1	1/8/2009 04:47 PM
Arsenic	ND		0.00500	mg/L	1	1/8/2009 04:47 PM
Barium	0.186		0.00500	mg/L	1	1/8/2009 04:47 PM
Boron	0.205		0.0200	mg/L	1	1/8/2009 04:47 PM
Cadmium	ND		0.00200	mg/L	1	1/8/2009 04:47 PM
Calcium	206		25.0	mg/L	50	1/9/2009 03:05 PM
Chromium	ND		0.00500	mg/L	1	1/8/2009 04:47 PM
Cobalt	ND		0.00500	mg/L	1	1/8/2009 04:47 PM
Copper	ND		0.00500	mg/L	1	1/8/2009 04:47 PM
Iron	ND		0.200	mg/L	1	1/8/2009 04:47 PM
Lead	ND		0.00500	mg/L	1	1/8/2009 04:47 PM
Magnesium	24.1		0.200	mg/L	1	1/8/2009 04:47 PM
Manganese	0.00934		0.00500	mg/L	1	1/8/2009 04:47 PM
Molybdenum	ND		0.00500	mg/L	1	1/8/2009 04:47 PM
Nickel	ND		0.00500	mg/L	1	1/8/2009 04:47 PM
Potassium	3.10		0.200	mg/L	1	1/8/2009 04:47 PM
Selenium	ND		0.00500	mg/L	1	1/8/2009 04:47 PM
Silver	ND		0.00500	mg/L	1	1/8/2009 04:47 PM
Sodium	108		0.200	mg/L	1	1/8/2009 04:47 PM
Zinc	0.0167		0.00500	mg/L	1	1/8/2009 04:47 PM
ANIONS						
Chloride	460		10.0	mg/L	20	1/5/2009 11:28 AM
Fluoride	0.730		0.100	mg/L	1	12/31/2008 11:41 AM
Sulfate	107		5.00	mg/L	10	12/31/2008 02:24 PM
Nitrate/Nitrite (as N)	3.04		0.100	mg/L	1	12/31/2008 11:41 AM
<i>Surr: Selenate (surr)</i>	99.4		85-115	%REC	20	1/5/2009 11:28 AM
<i>Surr: Selenite (surr)</i>	96.7		85-115	%REC	1	12/31/2008 11:41 AM

Qualifiers:
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 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 a - Not accredited

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 n - Not offered for accreditation

ALS Laboratory Group

Date: 14-Jan-09

Client: Navajo Refining Company
Project: Lovington Refining-Anual
Sample ID: South Well
Collection Date: 12/29/2008 01:55 PM

Work Order: 0812626
Lab ID: 0812626-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Selenate (surr)	96.3		85-115	%REC	10	12/31/2008 02:24 PM
ALKALINITY			SM2320B			Analyst: DM
Alkalinity, Bicarbonate (As CaCO ₃)	186		5.00	mg/L	1	1/11/2009 06:30 PM
Alkalinity, Carbonate (As CaCO ₃)	ND		5.00	mg/L	1	1/11/2009 06:30 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND		5.00	mg/L	1	1/11/2009 06:30 PM
Alkalinity, Total (As CaCO ₃)	186		5.00	mg/L	1	1/11/2009 06:30 PM
PH			SM4500H+ B			Analyst: TDW
pH	6.81	H	0.100	pH units	1	12/31/2008 12:00 PM
TOTAL DISSOLVED SOLIDS			M2540C			Analyst: TDW
Total Dissolved Solids (Residue, Filterable)	1,320		10.0	mg/L	1	1/2/2009 02:00 PM

Qualifiers:
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 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
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 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 n - Not offered for accreditation

ALS Laboratory Group

Date: 14-Jan-09

Client: Navajo Refining Company
Project: Lovington Refining-Anual
Sample ID: North Well
Collection Date: 12/29/2008 01:45 PM

Work Order: 0812626
Lab ID: 0812626-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX						
Benzene	ND		0.0010	mg/L	1	12/31/2008 06:33 PM
Toluene	ND		0.0010	mg/L	1	12/31/2008 06:33 PM
Ethylbenzene	ND		0.0010	mg/L	1	12/31/2008 06:33 PM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	12/31/2008 06:33 PM
Xylenes, Total	ND		0.0030	mg/L	1	12/31/2008 06:33 PM
<i>Surr: 4-Bromofluorobenzene</i>	98.7		77-129	%REC	1	12/31/2008 06:33 PM
<i>Surr: Trifluorotoluene</i>	119		75-130	%REC	1	12/31/2008 06:33 PM
MERCURY						
Mercury	ND		0.000200	mg/L	1	1/14/2009 02:11 PM
DISSOLVED METALS						
Aluminum	ND		0.0100	mg/L	1	1/8/2009 05:00 PM
Arsenic	ND		0.00500	mg/L	1	1/8/2009 05:00 PM
Barium	0.107		0.00500	mg/L	1	1/8/2009 05:00 PM
Boron	0.164		0.0200	mg/L	1	1/8/2009 05:00 PM
Cadmium	ND		0.00200	mg/L	1	1/8/2009 05:00 PM
Calcium	93.5		0.500	mg/L	1	1/8/2009 05:00 PM
Chromium	ND		0.00500	mg/L	1	1/8/2009 05:00 PM
Cobalt	ND		0.00500	mg/L	1	1/8/2009 05:00 PM
Copper	0.00773		0.00500	mg/L	1	1/8/2009 05:00 PM
Iron	ND		0.200	mg/L	1	1/8/2009 05:00 PM
Lead	ND		0.00500	mg/L	1	1/8/2009 05:00 PM
Magnesium	12.5		0.200	mg/L	1	1/8/2009 05:00 PM
Manganese	ND		0.00500	mg/L	1	1/8/2009 05:00 PM
Molybdenum	ND		0.00500	mg/L	1	1/8/2009 05:00 PM
Nickel	0.0149		0.00500	mg/L	1	1/8/2009 05:00 PM
Potassium	2.04		0.200	mg/L	1	1/8/2009 05:00 PM
Selenium	ND		0.00500	mg/L	1	1/8/2009 05:00 PM
Silver	ND		0.00500	mg/L	1	1/8/2009 05:00 PM
Sodium	46.5		0.200	mg/L	1	1/8/2009 05:00 PM
Zinc	0.0110		0.00500	mg/L	1	1/8/2009 05:00 PM
ANIONS						
Chloride	121		5.00	mg/L	10	1/5/2009 11:51 AM
Fluoride	0.985		0.100	mg/L	1	12/31/2008 11:17 AM
Sulfate	81.0		5.00	mg/L	10	1/5/2009 11:51 AM
Nitrate/Nitrite (as N)	2.56		0.100	mg/L	1	12/31/2008 11:17 AM
<i>Surr: Selenate (surr)</i>	99.9		85-115	%REC	10	1/5/2009 11:51 AM
<i>Surr: Selenite (surr)</i>	98.6		85-115	%REC	1	12/31/2008 11:17 AM

Qualifiers:
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 B - Analyte detected in the associated Method Blank
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 a - Not accredited

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 n - Not offered for accreditation

ALS Laboratory Group

Date: 14-Jan-09

Client: Navajo Refining Company
Project: Lovington Refining-Annual
Sample ID: North Well
Collection Date: 12/29/2008 01:45 PM

Work Order: 0812626
Lab ID: 0812626-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ALKALINITY						
Alkalinity, Bicarbonate (As CaCO ₃)	165		SM2320B	5.00 mg/L	1	Analyst: DM 1/11/2009 06:30 PM
Alkalinity, Carbonate (As CaCO ₃)	ND			5.00 mg/L	1	1/11/2009 06:30 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND			5.00 mg/L	1	1/11/2009 06:30 PM
Alkalinity, Total (As CaCO ₃)	165			5.00 mg/L	1	1/11/2009 06:30 PM
PH						
pH	7.12	H	SM4500H+ B	0.100 pH units	1	Analyst: TDW 12/31/2008 12:00 PM
TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids (Residue, Filterable)	540		M2540C	10.0 mg/L	1	Analyst: TDW 1/2/2009 02:00 PM

Qualifiers:
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B - Analyte detected in the associated Method Blank
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S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: 14-Jan-09

Client: Navajo Refining Company
Project: Lovington Refining-Annual
Sample ID: East Well
Collection Date: 12/30/2008 03:20 PM

Work Order: 0812626
Lab ID: 0812626-04
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX						
Benzene	ND		0.0010	mg/L	1	12/31/2008 07:03 PM
Toluene	ND		0.0010	mg/L	1	12/31/2008 07:03 PM
Ethylbenzene	ND		0.0010	mg/L	1	12/31/2008 07:03 PM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	12/31/2008 07:03 PM
Xylenes, Total	ND		0.0030	mg/L	1	12/31/2008 07:03 PM
<i>Surr: 4-Bromofluorobenzene</i>	98.1		77-129	%REC	1	12/31/2008 07:03 PM
<i>Surr: Trifluorotoluene</i>	119		75-130	%REC	1	12/31/2008 07:03 PM
MERCURY						
Mercury	ND		0.000200	mg/L	1	1/14/2009 02:13 PM
DISSOLVED METALS						
Aluminum	ND		0.0100	mg/L	1	1/8/2009 03:42 PM
Arsenic	0.00538		0.00500	mg/L	1	1/8/2009 03:42 PM
Barium	0.0922		0.00500	mg/L	1	1/8/2009 03:42 PM
Boron	0.154		0.0200	mg/L	1	1/8/2009 03:42 PM
Cadmium	ND		0.00200	mg/L	1	1/8/2009 03:42 PM
Calcium	97.0		0.500	mg/L	1	1/8/2009 03:42 PM
Chromium	ND		0.00500	mg/L	1	1/8/2009 03:42 PM
Cobalt	ND		0.00500	mg/L	1	1/8/2009 03:42 PM
Copper	ND		0.00500	mg/L	1	1/8/2009 03:42 PM
Iron	ND		0.200	mg/L	1	1/8/2009 03:42 PM
Lead	ND		0.00500	mg/L	1	1/8/2009 03:42 PM
Magnesium	12.1		0.200	mg/L	1	1/8/2009 03:42 PM
Manganese	ND		0.00500	mg/L	1	1/8/2009 03:42 PM
Molybdenum	ND		0.00500	mg/L	1	1/8/2009 03:42 PM
Nickel	ND		0.00500	mg/L	1	1/8/2009 03:42 PM
Potassium	1.78		0.200	mg/L	1	1/8/2009 03:42 PM
Selenium	ND		0.00500	mg/L	1	1/8/2009 03:42 PM
Silver	ND		0.00500	mg/L	1	1/8/2009 03:42 PM
Sodium	39.3		0.200	mg/L	1	1/8/2009 03:42 PM
Zinc	0.0177		0.00500	mg/L	1	1/8/2009 03:42 PM
ANIONS						
Chloride	113		5.00	mg/L	10	1/5/2009 12:14 PM
Fluoride	0.989		0.100	mg/L	1	12/31/2008 01:14 PM
Sulfate	76.1		5.00	mg/L	10	12/31/2008 03:58 PM
Nitrate/Nitrite (as N)	2.52		0.100	mg/L	1	12/31/2008 01:14 PM
<i>Surr: Selenate (surr)</i>	100		85-115	%REC	10	1/5/2009 12:14 PM
<i>Surr: Selenite (surr)</i>	97.4		85-115	%REC	1	12/31/2008 01:14 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: 14-Jan-09

Client: Navajo Refining Company
Project: Lovington Refining-Anual
Sample ID: East Well
Collection Date: 12/30/2008 03:20 PM

Work Order: 0812626
Lab ID: 0812626-04
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Selenate (surr)	96.8		85-115	%REC	10	12/31/2008 03:58 PM
ALKALINITY			SM2320B			Analyst: DM
Alkalinity, Bicarbonate (As CaCO ₃)	162		5.00	mg/L	1	1/11/2009 06:30 PM
Alkalinity, Carbonate (As CaCO ₃)	ND		5.00	mg/L	1	1/11/2009 06:30 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND		5.00	mg/L	1	1/11/2009 06:30 PM
Alkalinity, Total (As CaCO ₃)	162		5.00	mg/L	1	1/11/2009 06:30 PM
PH			SM4500H+ B			Analyst: TDW
pH	6.98	H	0.100	pH units	1	12/31/2008 12:00 PM
TOTAL DISSOLVED SOLIDS			M2540C			Analyst: TDW
Total Dissolved Solids (Residue, Filterable)	504		10.0	mg/L	1	1/5/2009 01:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: 14-Jan-09

Client: Navajo Refining Company
Project: Lovington Refining-Anual
Sample ID: MW-5
Collection Date: 12/30/2008 02:40 PM

Work Order: 0812626
Lab ID: 0812626-05
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX						
Benzene	ND		0.0010	mg/L	1	1/1/2009 01:50 AM
Toluene	ND		0.0010	mg/L	1	1/1/2009 01:50 AM
Ethylbenzene	ND		0.0010	mg/L	1	1/1/2009 01:50 AM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	1/1/2009 01:50 AM
Xylenes, Total	ND		0.0030	mg/L	1	1/1/2009 01:50 AM
<i>Surr: 4-Bromofluorobenzene</i>	99.2		77-129	%REC	1	1/1/2009 01:50 AM
<i>Surr: Trifluorotoluene</i>	121		75-130	%REC	1	1/1/2009 01:50 AM
MERCURY						
Mercury	ND		0.000200	mg/L	1	1/14/2009 02:15 PM
DISSOLVED METALS						
Aluminum	ND		0.0100	mg/L	1	1/8/2009 05:07 PM
Arsenic	0.00640		0.00500	mg/L	1	1/8/2009 05:07 PM
Barium	0.0802		0.00500	mg/L	1	1/8/2009 05:07 PM
Boron	0.119		0.0200	mg/L	1	1/8/2009 05:07 PM
Cadmium	ND		0.00200	mg/L	1	1/8/2009 05:07 PM
Calcium	44.7		0.500	mg/L	1	1/8/2009 05:07 PM
Chromium	ND		0.00500	mg/L	1	1/8/2009 05:07 PM
Cobalt	ND		0.00500	mg/L	1	1/8/2009 05:07 PM
Copper	ND		0.00500	mg/L	1	1/8/2009 05:07 PM
Iron	ND		0.200	mg/L	1	1/8/2009 05:07 PM
Lead	ND		0.00500	mg/L	1	1/8/2009 05:07 PM
Magnesium	4.65		0.200	mg/L	1	1/8/2009 05:07 PM
Manganese	ND		0.00500	mg/L	1	1/8/2009 05:07 PM
Molybdenum	ND		0.00500	mg/L	1	1/8/2009 05:07 PM
Nickel	ND		0.00500	mg/L	1	1/8/2009 05:07 PM
Potassium	1.84		0.200	mg/L	1	1/8/2009 05:07 PM
Selenium	ND		0.00500	mg/L	1	1/8/2009 05:07 PM
Silver	ND		0.00500	mg/L	1	1/8/2009 05:07 PM
Sodium	147		0.200	mg/L	1	1/8/2009 05:07 PM
Zinc	0.0213		0.00500	mg/L	1	1/8/2009 05:07 PM
ANIONS						
Chloride	18.4		0.500	mg/L	1	1/5/2009 12:38 PM
Fluoride	1.30		0.100	mg/L	1	12/31/2008 01:37 PM
Sulfate	46.0		0.500	mg/L	1	12/31/2008 01:37 PM
Nitrate/Nitrite (as N)	ND		0.100	mg/L	1	12/31/2008 01:37 PM
<i>Surr: Selenate (surr)</i>	100		85-115	%REC	1	1/5/2009 12:38 PM
<i>Surr: Selenite (surr)</i>	95.5		85-115	%REC	1	12/31/2008 01:37 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 a - Not accredited

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 n - Not offered for accreditation

ALS Laboratory Group

Date: 14-Jan-09

Client:	Navajo Refining Company	Work Order:	0812626
Project:	Lovington Refining-Annual	Lab ID:	0812626-05
Sample ID:	MW-5	Matrix:	WATER
Collection Date:	12/30/2008 02:40 PM		

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ALKALINITY						
Alkalinity, Bicarbonate (As CaCO ₃)	390		5.00	mg/L	1	Analyst: DM 1/11/2009 06:30 PM
Alkalinity, Carbonate (As CaCO ₃)	ND		5.00	mg/L	1	1/11/2009 06:30 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND		5.00	mg/L	1	1/11/2009 06:30 PM
Alkalinity, Total (As CaCO ₃)	390		5.00	mg/L	1	1/11/2009 06:30 PM
PH						
pH	7.12	H	0.100	pH units	1	Analyst: TDW 12/31/2008 12:00 PM
TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids (Residue, Filterable)	696		10.0	mg/L	1	Analyst: TDW 1/5/2009 01:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 a - Not accredited

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 n - Not offered for accreditation

ALS Laboratory Group

Date: 14-Jan-09

Client: Navajo Refining Company
Project: Lovington Refining-Annual
Sample ID: Trip Blank 120808-83
Collection Date: 12/30/2008 03:30 PM

Work Order: 0812626
Lab ID: 0812626-06
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX						
Benzene	ND		0.0010	mg/L	1	12/31/2008 04:07 PM
Toluene	ND		0.0010	mg/L	1	12/31/2008 04:07 PM
Ethylbenzene	ND		0.0010	mg/L	1	12/31/2008 04:07 PM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	12/31/2008 04:07 PM
Xylenes, Total	ND		0.0030	mg/L	1	12/31/2008 04:07 PM
<i>Surr: 4-Bromofluorobenzene</i>	95.1		77-129	%REC	1	12/31/2008 04:07 PM
<i>Surr: Trifluorotoluene</i>	115		75-130	%REC	1	12/31/2008 04:07 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: 14-Jan-09

Client: Navajo Refining Company
Project: Lovington Refining-Annual
Sample ID: Trip Blank 120808-45
Collection Date: 12/30/2008 03:20 PM

Work Order: 0812626
Lab ID: 0812626-07
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX						
Benzene	ND		0.0010	mg/L	1	12/31/2008 04:36 PM
Toluene	ND		0.0010	mg/L	1	12/31/2008 04:36 PM
Ethylbenzene	ND		0.0010	mg/L	1	12/31/2008 04:36 PM
Methyl tert-butyl ether	ND		0.0050	mg/L	1	12/31/2008 04:36 PM
Xylenes, Total	ND		0.0030	mg/L	1	12/31/2008 04:36 PM
Surr: 4-Bromofluorobenzene	98.2		77-129	%REC	1	12/31/2008 04:36 PM
Surr: Trifluorotoluene	119		75-130	%REC	1	12/31/2008 04:36 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

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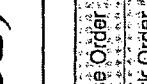
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Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

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 1

Customer Information		Project Information		Parameter/Method Request for Analysis																																				
Purchase Order#	Project Name	Livington Refining - Annual		ALS Work Order # 16811620																																				
Work Order#	Project Number																																							
Company Name	Bill To Company	Navajo Refining Company		BTEX/MTBE (8021)																																				
Send Report To	Invoice Attn:	David Beyer & ARG// Motre		Total Metals (602077000) Select																																				
Address	Address	P.O. Box 159		Dissolved Metals (602077000) Select																																				
City/State/Zip	City/State/Zip	Artesia, NM 88211		Anions (300) Cl, F, SO4, NO3, NO2																																				
Phone	Phone	(505) 748-3311		Alkalinity																																				
Fax	Fax	(505) 746-5421		PH																																				
E-Mail Address	E-Mail Address	dgboyer@sesi-nm.com		TDS																																				
No.	Sample Description	Date	Time	Matrix	# 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	Hold	Q.C.							
1	MW-GR	12/30/08	11:45	Water	1,3,8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<input type="checkbox"/>							
2	South Well	12/29/08	13:55	Water	8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<input type="checkbox"/>							
3	North Well	12/29/08	13:45	Water	8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<input type="checkbox"/>							
4	East Well	12/30/08	15:20	Water	8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<input type="checkbox"/>							
5	MW-5	12/30/08	14:40	Water	1,3,8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<input type="checkbox"/>							
6	Top Blank 120808-83	—	—	Water	1,3,8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<input type="checkbox"/>							
7	Top Blank 120808-45	—	—	Water	1,3,8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<input type="checkbox"/>							
8																																								
9																																								
10																																								
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time		Check Box		Olfar		Colder ID		QC Package		QC Temp		QC																								
Relinquished by		Receiving by		Date		Time		5 Wk Days		5 Wk Days		Check One Below		5 Wk Days		2 Wk Days		24 Hrs																						
				12/30/08		10:00		10 Wk Days		10 Wk Days		Level I Std QC		Level II Std QC		Level III Std QC/Raw Data		Level IV SW846/C/LP		Other																				
Logged by (Laboratory)		Date		Time		Time		5 Wk Days		5 Wk Days		Check One Below		5 Wk Days		2 Wk Days		24 Hrs		Other																				
Preservative Key		Date		Time		Time		5 Wk Days		5 Wk Days		Level I Std QC		Level II Std QC		Level III Std QC/Raw Data		Level IV SW846/C/LP		Other																				

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3. This form is provided for a paid service. All information must be concealed or omitted if

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Date: 24-Mar-09

Client: Navajo Refining Company
Project: Navajo Lea Refinery
Work Order: 0903424

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0903424-01	MW #6R	Water		3/17/2009 08:25	3/18/2009 09:15	<input type="checkbox"/>
0903424-02	North Well	Water		3/17/2009 08:45	3/18/2009 09:15	<input type="checkbox"/>
0903424-03	South Well	Water		3/17/2009 08:55	3/18/2009 09:15	<input type="checkbox"/>
0903424-04	East Well	Water		3/17/2009 09:30	3/18/2009 09:15	<input type="checkbox"/>
0903424-05	Trip Blank	Water		3/17/2009 09:30	3/18/2009 09:15	<input type="checkbox"/>

ALS Laboratory Group

Date: 24-Mar-09

Client: Navajo Refining Company**Project:** Navajo Lea Refinery**Sample ID:** MW #6R**Collection Date:** 3/17/2009 08:25 AM**Work Order:** 0903424**Lab ID:** 0903424-01**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX						
Benzene	ND		0.0010	mg/L	1	3/19/2009 04:12 PM
Toluene	0.0014		0.0010	mg/L	1	3/19/2009 04:12 PM
Ethylbenzene	ND		0.0010	mg/L	1	3/19/2009 04:12 PM
Xylenes, Total	ND		0.0030	mg/L	1	3/19/2009 04:12 PM
<i>Surr: 4-Bromofluorobenzene</i>	110		77-129	%REC	1	3/19/2009 04:12 PM
<i>Surr: Trifluorotoluene</i>	119		75-130	%REC	1	3/19/2009 04:12 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: 24-Mar-09

Client: Navajo Refining Company**Project:** Navajo Lea Refinery**Sample ID:** North Well**Collection Date:** 3/17/2009 08:45 AM**Work Order:** 0903424**Lab ID:** 0903424-02**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX						
Benzene	ND		0.0010	mg/L	1	3/19/2009 02:25 PM
Toluene	ND		0.0010	mg/L	1	3/19/2009 02:25 PM
Ethylbenzene	ND		0.0010	mg/L	1	3/19/2009 02:25 PM
Xylenes, Total	ND		0.0030	mg/L	1	3/19/2009 02:25 PM
<i>Surr: 4-Bromofluorobenzene</i>	105		77-129	%REC	1	3/19/2009 02:25 PM
<i>Surr: Trifluorotoluene</i>	115		75-130	%REC	1	3/19/2009 02:25 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: 24-Mar-09

Client: Navajo Refining Company**Project:** Navajo Lea Refinery**Sample ID:** South Well**Collection Date:** 3/17/2009 08:55 AM**Work Order:** 0903424**Lab ID:** 0903424-03**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX						
Benzene	ND		0.0010	mg/L	1	3/19/2009 02:52 PM
Toluene	0.0022		0.0010	mg/L	1	3/19/2009 02:52 PM
Ethylbenzene	0.0013		0.0010	mg/L	1	3/19/2009 02:52 PM
Xylenes, Total	ND		0.0030	mg/L	1	3/19/2009 02:52 PM
Surr: 4-Bromofluorobenzene	105		77-129	%REC	1	3/19/2009 02:52 PM
Surr: Trifluorotoluene	118		75-130	%REC	1	3/19/2009 02:52 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: 24-Mar-09

Client: Navajo Refining Company**Project:** Navajo Lea Refinery**Work Order:** 0903424**Sample ID:** East Well**Lab ID:** 0903424-04**Collection Date:** 3/17/2009 09:30 AM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX						
Benzene	ND		0.0010	mg/L	1	3/19/2009 04:39 PM
Toluene	ND		0.0010	mg/L	1	3/19/2009 04:39 PM
Ethylbenzene	ND		0.0010	mg/L	1	3/19/2009 04:39 PM
Xylenes, Total	ND		0.0030	mg/L	1	3/19/2009 04:39 PM
Surr: 4-Bromofluorobenzene	102		77-129	%REC	1	3/19/2009 04:39 PM
Surr: Trifluorotoluene	125		75-130	%REC	1	3/19/2009 04:39 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: 24-Mar-09

Client: Navajo Refining Company**Project:** Navajo Lea Refinery**Sample ID:** Trip Blank**Collection Date:** 3/17/2009 09:30 AM**Work Order:** 0903424**Lab ID:** 0903424-05**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX						
Benzene	ND		0.0010	mg/L	1	3/20/2009 10:39 AM
Toluene	ND		0.0010	mg/L	1	3/20/2009 10:39 AM
Ethylbenzene	ND		0.0010	mg/L	1	3/20/2009 10:39 AM
Xylenes, Total	ND		0.0030	mg/L	1	3/20/2009 10:39 AM
<i>Surr: 4-Bromofluorobenzene</i>	110		77-129	%REC	1	3/20/2009 10:39 AM
<i>Surr: Trifluorotoluene</i>	121		75-130	%REC	1	3/20/2009 10:39 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

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Chain of Custody Form**ALS Laboratory Group**

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Page 1 of 1**Customer Information**

Customer Information		Project Information		Parameter/Method Request for Analysis																			
Purchase Order#		Project Name	Navajo Artesia Refinery	A	BTEX (8021)																		
Work Order#		Project Number		B																			
Company Name	Navajo Refining Company	Bill-to Company	Navajo Refining Company	C																			
Send Report To	Darrell Moore	Invoice/Attn	Darrell Moore	D																			
Address	PO Box 159	Address	PO Box 159	E																			
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	F																			
Phone	(575) 748-3311	Phone	(575) 748-3311	G																			
Fax	(575) 746-5421	Fax	(575) 746-5421	H																			
E-Mail Address	darrell.moore@navjoref.com	e-Mail Address		I																			
No.	Sample Description	Date	Time	J																			
1	Mat #62	3/17/09	0825	K	# Bottles	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Hold	
2	North well 1	3/17/09	0845	L	H ₂ O	HCl	3	✓															
3	South well 1	3/17/09	0855	M	H ₂ O	HCl	3	✓															
4	East well 1	3/17/09	0930	N	H ₂ O	HCl	3	✓															
5	Top Block			O																			
6				P																			
7				Q																			
8				R																			
9				S																			
10				T																			
Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date: (Check One Box Below)																			
FedEx		Other		<input checked="" type="checkbox"/> Std Day	<input type="checkbox"/> 2 Wk Days	<input type="checkbox"/> 3 Wk Days	<input type="checkbox"/> 4 Wk Days	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> Level II Std QC/Raw Data	<input type="checkbox"/> Level IV SWAB/C/LP	<input type="checkbox"/> TRP Checklist	<input type="checkbox"/> TRP Level I										
Date:		Time:		Notes: 10 Work Day TAT																			
Date:		Time:		Notes: 10 Work Day TAT																			
Received by:		Shipped by (Laboratory):		Cooler ID:												QC Package: (Check One Box Below)							
F		F		3-18-09/01/09												<input checked="" type="checkbox"/> Other	<input type="checkbox"/> 24 Hour						
Date:		Time:		Notes: 10 Work Day TAT												<input type="checkbox"/> Other	<input type="checkbox"/> Other						
Date:		Time:		Notes: 10 Work Day TAT												<input type="checkbox"/> Other	<input type="checkbox"/> Other						
Refinishing by:		Shipment Method		Required Turnaround Time: (Check Box)												Results Due Date: (Check One Box Below)							
Date:		Time:		Notes: 10 Work Day TAT												<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> Level II Std QC/Raw Data	<input type="checkbox"/> Level IV SWAB/C/LP	<input type="checkbox"/> TRP Checklist	<input type="checkbox"/> TRP Level I			
Logged by (Laboratory):		Date:		Notes: 10 Work Day TAT												<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other						
Relinquished by:		Date:		Notes: 10 Work Day TAT												<input type="checkbox"/> Other	<input type="checkbox"/> Other						
Preservative/Key:		Date:		Notes: 10 Work Day TAT												<input type="checkbox"/> Other	<input type="checkbox"/> Other						

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TABLE 1

NAVAJO REFINING COMPANY
LOVINGTON REFINERY

SEWER TESTING

Note: Notify Darrel Moore so he can contact OCD's District Office and Santa Fe Office to witness testing (72 hrs notice required)

UNIT #	DWG #	LINE, BOX OR HUB #	TEST MEDIUM	TEST DATE	TEST METHOD	TESTED BY	TEST PASS/FAIL	COMMENTS / REPAIR METHOD
83	PLOT PLAN	PSB#01 TO LPS#8809	WATER	5/23/2005	HYDRO	RODRIGO, LIRA	PASS	
83	PLOT PLAN	PSB#01 TO PSB#02 TO LPS#8812 TO LML#8800	WATER	5/26/2005	HYDRO	RODRIGO, LIRA	PASS	
83	PLOT PLAN	LML#8800 TO LPS#8813	WATER	6/3/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	LML#8804 TO PSB#05	WATER	6/7/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	LML#8800 TO LPS#8811 TO LPS#8810	WATER	6/9/2005	HYDRO	CLEY MONTES	FAIL	
83	PLOT PLAN	LML#8800 TO LPS#8811 TO LPS#8810	WATER	6/10/2005	HYDRO	CLEY MONTES	PASS	REPLACED ENTIRE LINE/RETEST
83	PLOT PLAN	PSB#08 TO LML#8801 TO PSB #03	WATER	6/24/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	PSB#03 TO LML#8802	WATER	6/28/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	LPS#8815 TO PSB#05, 06, 07 TO LPS#8817 TO LPS#8816 TO LPS#8816 TO PSB#08	WATER	7/3/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	PSB#03 TO LPS#8818 TO LPS#8819 TO PSB#09 TO PSB#12	WATER	7/8/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	LML#8803 TO LPS#8820 TO LPS#8821 TO LPS#8822 TO LML#8803	WATER	7/13/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	LML#8803 TO LPS#8823 TO LPS#8824 TO LPS#8825	WATER	7/15/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	LML#8803 TO LPS#8823 TO LPS#8824 TO LPS#8825	WATER	7/19/2005	HYDRO	CLEY MONTES	FAIL	
83	PLOT PLAN	TO LPS#8827 TO LPS#8826	WATER	8/2/2005	HYDRO	CLEY MONTES	PASS	MADE REPAIRS/RETEST
83	PLOT PLAN	LML#8804 TO LPS#8829 TO LPS#8830	WATER	8/8/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	LML#8804 TO LPS#8829 TO LPS#8830	WATER	8/11/2005	HYDRO	CLEY MONTES	FAIL	MADE REPAIRS/RETEST
83	PLOT PLAN	LML#8804 TO LPS#8829 TO LPS#8830	WATER	8/12/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	LPS#8825 TO LPS#8831	WATER	8/29/2005	HYDRO	CLEY MONTES	FAIL	MADE REPAIRS/RETEST
83	PLOT PLAN	LPS#8825 TO LPS#8831	WATER	10/15/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	PSB#14 TO LPS#8833 TO LPS#8832 TO LPS#8834	WATER	10/19/2005	HYDRO	CLEY MONTES	PASS	MADE REPAIRS/RETEST
83	PLOT PLAN	PSB#14 TO LPS#8833 TO LPS#8832 TO LPS#8834	WATER	10/20/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	LML#8805 TO LPS#8838 TO LPS#8839 TO LPS#8840	WATER	10/24/2005	HYDRO	CLEY MONTES	FAIL	MADE REPAIRS/RETEST
83	PLOT PLAN	LML#8807 TO LPS#8791 TO LPS#8792	WATER	10/30/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	LML#8807 TO LPS#8843	WATER	11/10/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	LML#8806 TO LPS#8847	WATER	11/17/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	PSB#17 TO LPS#8848 TI KOS#8849	WATER	11/21/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	LML#8807 TO LPS#8850 TO LPS#8790	WATER	11/28/2005	HYDRO	CLEY MONTES	FAIL	MADE REPAIRS/RETEST
83	PLOT PLAN	LML#8807 TO LPS#8850 TO LPS#8790	WATER	12/10/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	LML#8807 TO LPS#8893	WATER	12/14/2005	HYDRO	CLEY MONTES	FAIL	
83	PLOT PLAN	LML#8807 TO LPS#8893	WATER	12/20/2005	HYDRO	CLEY MONTES	PASS	MADE REPAIRS/RETEST
83	PLOT PLAN	LPS#8839 TO LPS#8841	WATER	12/28/2005	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	LML#8805 TO LPS#8838	WATER	1/6/2006	HYDRO	CLEY MONTES	PASS	
83	PLOT PLAN	PSB#04 TO LML#8803 TO PSB#13 TO PSB#04 TO PSB#15	WATER	1/10/2006	HYDRO	CLEY MONTES	FAIL	
83	PLOT PLAN	PSB#14 TO LML#8803 TO PSB#13 TO PSB#04 TO PSB#15	WATER	1/13/2006	HYDRO	CLEY MONTES	PASS	MADE REPAIRS/RETEST

TABLE 2

NAVAJO REFINING COMPANY
LOVINGTON REFINERY
LISTING OF ALL SUMPS

Jan. 13, 2009

REVISION #4											
NO. OF SUMPS	ID #	LOCATION	DESCRIPTION	APPROX. DIMENSIONS	LAST TEST DATE	NEXT TEST DUE	TEST BY	TESTED	TEST METHOD	REPAIR METHOD	COMMENT
1	8SSUMP01	EAST OF COOLING TOWER, NORTH OF RACK @ E-426	CONCRETE BOX	CONCRETE CAP	N/A	N/A					(OUT OF SERVICE) OLD HUB SEWER HUB OR JET STATION BACKFILL AND CAP PENDING ENVIRONMENTAL APPROVAL
2	8SSUMP02	AT OLD BUNDLE CLEANING PAD	CONCRETE BOX	4' X 4' X 4', 3' X 32'-6" X 4'	11/18/2008	N/A	PASS	GILES, INC.	HYDROCHECK LEVEL		(OUT OF SERVICE) 2 SUMPS, BACKFILL AND CAP PENDING ENVIRONMENTAL APPROVAL
3	8SSUMP03	AT CHEMICAL STORAGE PAD	CONCRETE BOX	4' X 4' X 4'	6/12/2004	6/11/2009	PASS	GILES, INC.	HYDROCHECK LEVEL		TEST - SUMP NEW IN 2004
4	8SSUMP04	(NAPHTHA) SUMP, NORTH OF CONTROL ROOM	CONCRETE BOX		11/2/2007	11/20/2012	PASS	GILES, INC.	HYDROCHECK LEVEL		TEST - SUMP
5	8SSUMP05	SOUTH OF 400 & 401 CAUSTIC TANKS	CONCRETE BOX	4' X 4' X 4'	11/2/2007	11/20/2012	PASS	GILES, INC.	HYDROCHECK LEVEL		TEST - SUMP
6	8SSUMP06	AT NON-HAZ PAD	CONCRETE BOX	4' X 4' X 4'	11/2/2007	11/20/2012	PASS	GILES, INC.	HYDROCHECK LEVEL		TEST - SUMP
7	8SSUMP07	AT BUNDLE CLEANING PAD	FIBERGLASS DRUM	ROUND DRUM	11/2/2007	11/20/2012	PASS	GILES, INC.	HYDROCHECK LEVEL		TEST - SUMP
8	8SSUMP08	WEST OF API SEPARATOR	CONCRETE BOX	10' X 20' X 3'	11/20/2008	11/20/2013	PASS	GILES, INC.	HYDROCHECK LEVEL		(OUT OF SERVICE) BACK FILL AND CAP PENDING ENVIRONMENTAL APPROVAL
9	8SSUMP10	SOUTH OF TANK 1208	METAL BOX	8' X 6' X 6'	11/22/2008	11/22/2013	PASS	GILES, INC.	HYDROCHECK LEVEL		(OUT OF SERVICE) BACK FILL AND CAP PENDING ENVIRONMENTAL APPROVAL
10	8SSUMP11	NORTH OF TANK 2215	METAL BOX	3' X 3' X 2'	11/24/2008	11/24/2013	PASS	GILES, INC.	HYDROCHECK LEVEL		(OUT OF SERVICE) BACK FILL AND CAP PENDING ENVIRONMENTAL APPROVAL
11	8SSUMP13	WEST OF MAIN OFFICE BUILDING (OLD AAC CONDENSATE SUMP)	CONCRETE BOX	CONCRETE CAP	11/24/2008	11/24/2013	PASS	GILES, INC.	HYDROCHECK LEVEL		(OUT OF SERVICE) BACK FILL AND CAP PENDING ENVIRONMENTAL APPROVAL
12	8SSUMP14	NW CORNER OF MAIN BUILDING (OLD AAC CONDENSATE SUMP)	CONCRETE BOX	3' X 5' X 2'	11/25/2008	11/25/2013	PASS	GILES, INC.	HYDROCHECK LEVEL		(OUT OF SERVICE) BACK FILL AND CAP PENDING ENVIRONMENTAL APPROVAL
13	8SSUMP15	TRUCK UNLOADING EAST OF TANK 201A	CONCRETE BOX			2009					TEST - SUMP
14	8SSUMP16	SOUTH OF TANK 2210, CRUDE METER STA.	CONCRETE BOX	3' DIAMETER	11/25/2008	11/25/2013	PASS	GILES, INC.	HYDROCHECK LEVEL		TEST - SUMP
15	8SSUMP17	SOUTH AND WEST OF TANK 2010, RIGGING STATION	CONCRETE BOX	3' DIAMETER		2009					TEST - SUMP
16	8SSUMP18	AT RAILROAD LOADING SPUR ALONG HIGHWAY	CONCRETE BOX	6' X 6' X 4'		N/A					(OUT OF SERVICE) BACK FILL AND CAP PENDING ENVIRONMENTAL APPROVAL
17	8SSUMP19	SUMP LOCATED NORTH OF TRUCK RACK, COVERED	CONCRETE BOX	36' X 36' X 5'		2009					TEST - SUMP
18	8SSUMP20	AT TRUCK LOADING RACK	CONCRETE BOX	3' X 3' X 5'		2009					(OUT OF SERVICE) 2 SUMPS, BACK FILL AND CAP PENDING ENVIRONMENTAL APPROVAL
19	8SSUMP21	OIL JET 'A' LOADING RACK	CONCRETE BOX	5' X 5' X 4' X 3' X 2' X 2'	11/25/2008	11/25/2013	PASS	GILES, INC.	HYDROCHECK LEVEL		TEST - SUMP
20	8SSUMP22	SOUTH OF TANK 101B	METAL BOX	4' X 4' X 8'		2009					TEST - SUMP
21	8SSUMP23	AT PROVERMANIC COLOR SOUTH AND EAST OF TANK 201A, RUSSEL STA.	METAL BOX	4' X 4' X 4'		2009					TEST - SUMP
22	8SSUMP24	Abandoned Phillips blend tree	CONCRETE BOX	6' X 6' X 6'	11/25/2008	11/25/2013	PASS	GILES, INC.	HYDROCHECK LEVEL		(OUT OF SERVICE) BACK FILL AND CAP PENDING ENVIRONMENTAL APPROVAL
23	8SSUMP25	Abandoned Phillips blend tree	CONCRETE BOX	6' X 6' X 6'	11/25/2008	11/25/2013	PASS	GILES, INC.	HYDROCHECK LEVEL		(OUT OF SERVICE) BACK FILL AND CAP PENDING ENVIRONMENTAL APPROVAL
24	8SSUMP26	South of 1201D at meters (has electric pump pump in hole)				2009					TEST - SUMP
25	8SSUMP27	Sump at spent caustics loading pumps				2009					TEST - SUMP
26	8SSUMP28	Inside tank 402 containment				2009					TEST - SUMP
27	8SSUMP29	Inside tanks 400 and 410 containment				2009					TEST - SUMP
28	8SSUMP30	Piping station on 8' pipeline				2009					TEST - SUMP
29	8SSUMP31	Piping station on 10' pipeline				2009					TEST - SUMP

ATTACHMENT 2

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

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 Lee Refining Co. LLC	Contact Darrell Moore	
Address 7406 S1 Main Lovington, NM 88260	Telephone No. 505-703-5058	
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

NATURE OF RELEASE

Type of Release Caustic	Volume of Release 150 Bbls	Volume Recovered 120 Bbls
Source of Release Caustic Scrubber	Date and Hour of Occurrence 7/10/08 5:30 am	Date and Hour of Discovery 7/10/08 6:00 am
Was Immediate Notice Given? <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? <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.* Relief valve hung in the open position and filled sump. Which then over flowed. Valve is being replaced.

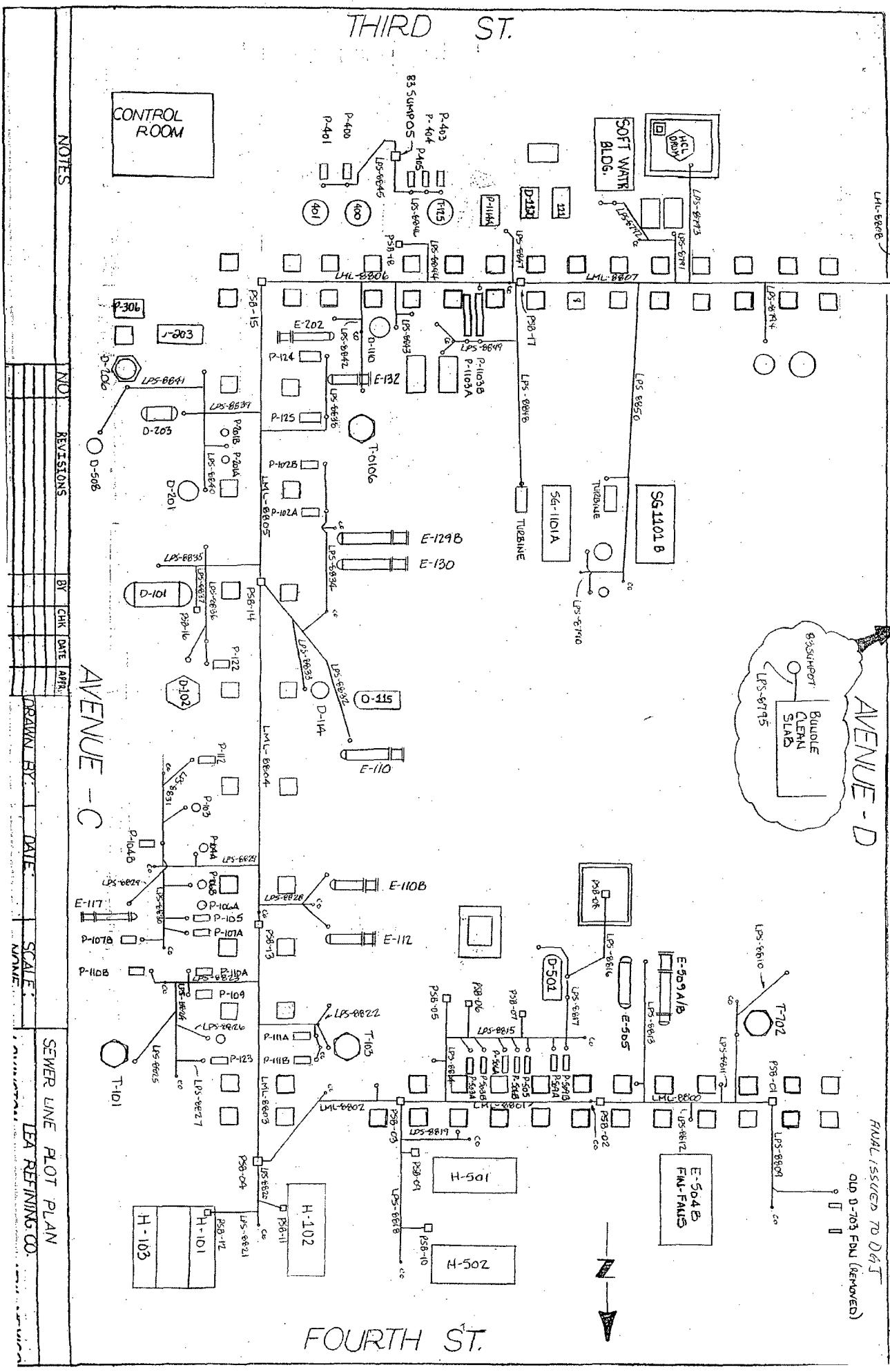
Describe Area Affected and Cleanup Action Taken.* Area affected is to the east and south of caustic scrubber. Happened during a rain event, so most of material was floating on water. Vacuum truck sucked up spill material. Contaminated soil will be removed.

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: Darrell Moore	Approved by District Supervisor:	
Title: Env. Mgr. for Water & Waste	Approval Date:	Expiration Date:
Date: 7/10/08	Phone: 575-703-5058	Conditions of Approval: Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

ATTACHMENT 3



ATTACHMENT 4

ALS Laboratory Group

Date: 30-Dec-08

Client: Navajo Refining Company
Project: Lovington Lea Refining-Monthly
Sample ID: City Waste Water
Collection Date: 12/17/2008 09:00 AM

Work Order: 0812399
Lab ID: 0812399-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: WLR
Benzene	0.035		0.0010	mg/L	1	12/19/2008 02:55 PM
Toluene	0.051		0.0010	mg/L	1	12/19/2008 02:55 PM
Ethylbenzene	0.037		0.0010	mg/L	1	12/19/2008 02:55 PM
Xylenes, Total	0.065		0.0030	mg/L	1	12/19/2008 02:55 PM
Surr: 4-Bromofluorobenzene	118		77-129	%REC	1	12/19/2008 02:55 PM
Surr: Trifluorotoluene	126		75-130	%REC	1	12/19/2008 02:55 PM
METALS			SW6020		Prep Date: 12/18/2008	Analyst: ALR
Chromium	0.00747		0.00500	mg/L	1	12/19/2008 08:26 PM
ANIONS			E300			Analyst: KKP
Nitrogen, Nitrate (As N)	ND		0.100	mg/L	1	12/18/2008 12:24 PM
Nitrogen, Nitrite (As N)	ND		0.100	mg/L	1	12/18/2008 12:24 PM
Surr: Selenate (surr)	91.8		85-115	%REC	1	12/18/2008 12:24 PM
AMMONIA AS N			SM4500 NH3-B-F			Analyst: DM
Nitrogen, Ammonia (as N)	3.41		0.250	mg/L	10	12/28/2008 09:30 AM
OIL AND GREASE			E1664			Analyst: KKP
Oil and Grease	31.9		2.00	mg/L	1	12/23/2008 07:00 PM
DISSOLVED SILICA			SM4500-SID			Analyst: RPM
Silica, Dissolved (as SiO ₂)	44		2.5	mg/L	25	12/19/2008 03:00 PM
TOTAL DISSOLVED SOLIDS			M2540C			Analyst: TDW
Total Dissolved Solids (Residue, Filterable)	2,280		10.0	mg/L	1	12/22/2008 02:00 PM
TOTAL KJELDAHL L NITROGEN			M4500 NH3 D			Analyst: KKP
Nitrogen, Total Kjeldahl	5.36		1.00	mg/L	1	12/27/2008 06:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Date: 05-Dec-08

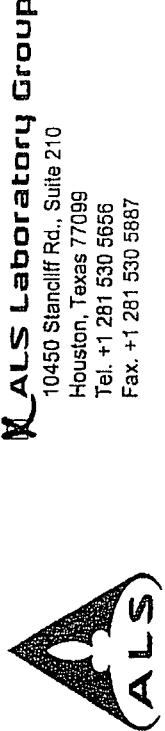
Client: Navajo Refining Company
Project: Lovington Lea Refining-Monthly
Sample ID: City Waste Water
Collection Date: 11/25/2008 09:00 AM

Work Order: 0811554
Lab ID: 0811554-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX						
Benzene	0.017		0.0010	mg/L	1	12/2/2008 03:47 PM
Toluene	0.0047		0.0010	mg/L	1	12/2/2008 03:47 PM
Ethylbenzene	0.021		0.0010	mg/L	1	12/2/2008 03:47 PM
Xylenes, Total	0.023		0.0030	mg/L	1	12/2/2008 03:47 PM
Surr: 4-Bromofluorobenzene	123		77-129	%REC	1	12/2/2008 03:47 PM
Surr: Trifluorotoluene	110		75-130	%REC	1	12/2/2008 03:47 PM
ANIONS						
Nitrate/Nitrite (as N)	3.03		0.100	mg/L	1	11/26/2008 02:24 PM
Surr: Selenate (surr)	90.6		85-115	%REC	1	11/26/2008 02:24 PM
AMMONIA AS N						
Nitrogen, Ammonia (as N)	8.12		0.625	mg/L	25	12/2/2008 11:00 AM
OIL AND GREASE						
Oil and Grease	14.8		2.00	mg/L	1	12/3/2008 04:30 PM
SULFIDE						
Sulfide	ND		1.00	mg/L	1	12/1/2008 05:00 PM
TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids (Residue, Filterable)	2,030		10.0	mg/L	1	12/1/2008 06:00 PM
TOTAL KJELDAHL L NITROGEN						
Nitrogen, Total Kjeldahl	7.78		M4500 NH3 D			Analyst: RPM
			1.00	mg/L	1	12/1/2008 12:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
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 n - Not offered for accreditation



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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

Chain of Custody Form

Customer Information

Purchase Order #		Project Information		Parameter/Method Request for Analysis																																																																																												
Purchase Order #	Work Order #	Project Name	Project Number	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																	
				Livington Lea Refining - Monthly						Anions (300) NO ₃ , NO ₂						Ammonia						Oil & Grease						TDS						Sulfide						TKN						Ammonia						BTEX (8021)																																												
Company Name		Navajo Refining Company		Bill To: Company			Navajo Refining Company			Invoice Attn:			Darrell Moore			P.O. Box 159			(505) 748-3311			(505) 748-5421			Artesia, NM 88211			City/State/Zip			Artesia, NM 88211			Phone			Fax			Email Address			Address			Send Report To:			Company Name			Project Name			Work Order #			Purchase Order #																																						
Send Report To:		Darrell Moore		P.O. Box 159																																																																																												
Address																																																																																																
City/State/Zip		Artesia, NM 88211																																																																																														
Phone		(505) 748-3311																																																																																														
Fax		(505) 748-5421																																																																																														
Email Address		dgbyer@SES14NM.com																																																																																														
Sample Description				Date:			Time:			Matrix:			Fres:			# 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		
Note:				11-25-08			9:00			U			Y			8			✓			✓			✓			✓			✓			✓			✓			✓			✓			✓			✓			✓			✓			✓			✓			✓			✓			✓			✓			✓			✓			✓														
Sample(s) Please Print & Sign:		Steve Terry		Shipped by:			Received by:			Shipment Method			Required Turnaround Time: Check Box			Results Due Date:			QC Packaging: Check One Box Below:			Other			10 Work Days TAT.																																																																							
Reinforced by:		Steve Terry		Date: 11/25/08			Time: 9:00			Received by (Laboratory): E. O'Dea			Date: 11/26/08			Time: 10:00			Checked by Laboratory:			QC Packaging: Check One Box Below:			Other			10 Work Days TAT.																																																																				
Preservative Key:		1HCl, 2HNO ₃ , 3NaOH, 4Na ₂ SO ₄ , 5Na ₂ O ₂ , 6NaHSO ₃ , 7Other																																																																																														
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Level II Std QC																																																																																																
Level III Std QC/Raw Data																																																																																																
Level IV SW846/CLP																																																																																																
Other																																																																																																

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.

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ALS Laboratory Group

Date: 12-Nov-08

Client: Navajo Refining Company
Project: Lovington Lea Refining-Monthly
Sample ID: City Waste Water
Collection Date: 10/28/2008 08:30 AM

Work Order: 0810594
Lab ID: 0810594-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: WLR
Benzene	0.012		0.0010	mg/L	1	10/31/2008 06:57 PM
Toluene	ND		0.0010	mg/L	1	10/31/2008 06:57 PM
Ethylbenzene	0.015		0.0010	mg/L	1	10/31/2008 06:57 PM
Xylenes, Total	0.033		0.0030	mg/L	1	10/31/2008 06:57 PM
Surr: 4-Bromofluorobenzene	121		77-129	%REC	1	10/31/2008 06:57 PM
Surr: Trifluorotoluene	104		75-130	%REC	1	10/31/2008 06:57 PM
ANIONS			E300			Analyst: PV
Nitrogen, Nitrate (As N)	ND		0.100	mg/L	1	10/29/2008 02:35 PM
Nitrogen, Nitrite (As N)	1.30		0.100	mg/L	1	10/29/2008 02:35 PM
Surr: Selenate (surr)	95.3		85-115	%REC	1	10/29/2008 02:35 PM
AMMONIA AS N			SM4500 NH3-B-F			Analyst: KKP
Nitrogen, Ammonia (as N)	7.40		0.625	mg/L	5	11/4/2008 09:30 AM
OIL AND GREASE			E1664			Analyst: MAM
Oil and Grease	52.9		1.00	mg/L	1	11/6/2008 04:00 PM
SULFIDE			SM4500 S2-F			Analyst: KKP
Sulfide	ND		1.00	mg/L	1	11/3/2008 03:00 PM
TOTAL DISSOLVED SOLIDS			M2540C			Analyst: TDW
Total Dissolved Solids (Residue, Filterable)	2,220		10.0	mg/L	1	10/30/2008 01:00 PM
TOTAL KJELDAHL L NITROGEN			M4500 NH3 D			Analyst: KKP
Nitrogen, Total Kjeldahl	5.90		1.00	mg/L	1	11/11/2008 06:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 a - Not accredited

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 n - Not offered for accreditation

ALS Laboratory Group

Date: 03-Oct-08

Client: Navajo Refining Company
Project: Lovington Lea Refining-Monthly
Sample ID: City Waste Water
Collection Date: 9/24/2008 08:00 AM

Work Order: 0809410
Lab ID: 0809410-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER			SW8021B			Analyst: WLR
Benzene	0.017		0.0010	mg/L	1	9/29/2008 06:31 PM
Toluene	0.021		0.0010	mg/L	1	9/29/2008 06:31 PM
Ethylbenzene	0.018		0.0010	mg/L	1	9/29/2008 06:31 PM
Xylenes, Total	0.030		0.0030	mg/L	1	9/29/2008 06:31 PM
Surr: 4-Bromofluorobenzene	104		77-129	%REC	1	9/29/2008 06:31 PM
Surr: Trifluorotoluene	87.7		75-130	%REC	1	9/29/2008 06:31 PM
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: PV
Nitrate/Nitrite (as N)	9.25		0.100	mg/L	1	9/25/2008 01:24 PM
Surr: Selenate (surr)	98.2		85-115	%REC	1	9/25/2008 01:24 PM
AMMONIA AS N			SM4500 NH3-B-F			Analyst: KKP
Nitrogen, Ammonia (as N)	11.9		0.625	mg/L	25	9/27/2008 12:00 PM
OIL AND GREASE			E1664			Analyst: MAM
Oil and Grease	48.6		1.00	mg/L	1	10/2/2008 04:00 PM
SULFIDE			SM4500 S2-F			Analyst: KKP
Sulfide	ND		1.00	mg/L	1	9/29/2008 04:00 PM
TOTAL DISSOLVED SOLIDS			M2540C			Analyst: TDW
Total Dissolved Solids (Residue, Filterable)	2,430		10.0	mg/L	1	9/25/2008 02:00 PM
TOTAL KJELDAHL NITROGEN			M4500 NH3 D			Analyst: RPM
Nitrogen, Total Kjeldahl	13.9		0.800	mg/L	2	9/27/2008 08:00 AM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 a - Not accredited

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 n - Not offered for accreditation

ALS Laboratory Group

Date: 08-Sep-08

Client: Navajo Refining Company
Project: Lovington Lea Refining-Monthly
Sample ID: City Waste Water
Collection Date: 8/27/2008 08:00 AM

Work Order: 0808664
Lab ID: 0808664-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER			SW8021B			Analyst: WLR
Benzene	0.040		0.0010	mg/L	1	8/30/2008 06:28 AM
Toluene	0.025		0.0010	mg/L	1	8/30/2008 06:28 AM
Ethylbenzene	0.031		0.0010	mg/L	1	8/30/2008 06:28 AM
Xylenes, Total	0.043		0.0030	mg/L	1	8/30/2008 06:28 AM
<i>Surr: 4-Bromofluorobenzene</i>	119		77-129	%REC	1	8/30/2008 06:28 AM
<i>Surr: Trifluorotoluene</i>	86.5		75-130	%REC	1	8/30/2008 06:28 AM
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: PV
Nitrogen, Nitrate (As N)	ND		0.100	mg/L	1	8/28/2008 08:49 PM
Nitrogen, Nitrite (As N)	2.60		0.100	mg/L	1	8/28/2008 08:49 PM
<i>Surr: Selenate (surr)</i>	98.8		85-115	%REC	1	8/28/2008 08:49 PM
AMMONIA AS N			SM4500 NH3-B-F			Analyst: KKP
Nitrogen, Ammonia (as N)	9.42		0.625	mg/L	25	9/4/2008 06:00 PM
OIL AND GREASE			E1664			Analyst: MAM
Oil and Grease	34.7		1.00	mg/L	1	8/29/2008 02:30 PM
SULFIDE			E376.1			Analyst: KKP
Sulfide	ND		1.00	mg/L	1	9/2/2008 05:00 PM
TOTAL DISSOLVED SOLIDS			E160.1			Analyst: TDW
Total Dissolved Solids (Residue, Filterable)	2,280		10.0	mg/L	1	8/29/2008 04:00 PM
TOTAL KJELDAHL NITROGEN			E351.3			Analyst: RPM
Nitrogen, Total Kjeldahl	14.0		5.00	mg/L	5	9/3/2008 08:00 AM

Qualifiers:
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S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 n - Not offered for accreditation

ALS Laboratory Group

Date: 06-Aug-08

Client: Navajo Refining Company

Project: Lovington Lea Refining-Monthly

Sample ID: City Waste Water

Collection Date: 7/23/2008 08:30 AM

Work Order: 0807520

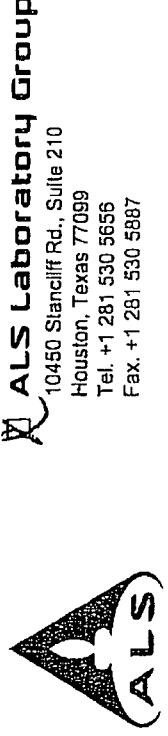
Lab ID: 0807520-01

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER			SW8021B			Analyst: WLR
Benzene	0.018		0.0010	mg/L	1	7/28/2008 03:35 PM
Toluene	0.0052		0.0010	mg/L	1	7/28/2008 03:35 PM
Ethylbenzene	0.033		0.0010	mg/L	1	7/28/2008 03:35 PM
Xylenes, Total	0.035		0.0030	mg/L	1	7/28/2008 03:35 PM
<i>Surr: 4-Bromofluorobenzene</i>	108		77-129	%REC	1	7/28/2008 03:35 PM
<i>Surr: Trifluorotoluene</i>	90.8		75-130	%REC	1	7/28/2008 03:35 PM
MISCELLANEOUS ANALYSIS			NA			Analyst: MAG
Miscellaneous Analysis	See Attached				1	7/28/2008
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: PV
Nitrogen, Nitrate (As N)	0.137		0.100	mg/L	1	7/24/2008 03:36 PM
Nitrogen, Nitrite (As N)	1.89		0.100	mg/L	1	7/24/2008 03:36 PM
<i>Surr: Selenate (surr)</i>	93.3		85-115	%REC	1	7/24/2008 03:36 PM
OIL AND GREASE			E1664			Analyst: RPM
Oil and Grease	13.9		1.00	mg/L	1	7/30/2008 01:00 PM
SULFIDE			E376.1			Analyst: KKP
Sulfide	ND		1.00	mg/L	1	7/28/2008 01:00 PM
TOTAL DISSOLVED SOLIDS			E160.1			Analyst: MAM
Total Dissolved Solids (Residue, Filterable)	1,930		10.0	mg/L	1	7/25/2008 04:30 PM

Qualifiers:
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Chain of Custody Form

ALS Laboratory Group

10450 Stancilff Rd., Suite 210
Houston, Texas 77099

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Fax. +1 281 530 5887

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

Page 1 of 1

Customer Information

Customer Information		Project Information		Parameter/Method Request for Analysis																				
Purchase Order#	Project Name	A	BTEX (8021)																					
Work Order#	Project Number	B	Anolos (300) NO3, NO2																					
Company Name	Bill To Company	C	Ammonia																					
Send Report To:	Invoice Attn:	D	TGN																					
Address	509 East Main	E	Oil & Grease																					
City/State/Zip	Artesia, NM 88211	F	TDS																					
Phone:	(505) 748-3311	G	Sulfide																					
Fax:	(505) 746-5421	H																						
e-Mail Address		I																						
No.	Sample Description	Date	Time	Matrix	Pres.	Böthös	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Hold	
1	City Water	1-23-08	12:00 PM	Y	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date																		
Relinquished by: <u>John Hartley</u>		Date: <u>1-23-08</u>		Time: <u>12:00 PM</u>		Cooler ID: <u>7</u>		QC Package: (Check One Box Below)																
Relinquished by: <u>John Hartley</u>		Date: <u>1-23-08</u>		Time: <u>12:00 PM</u>		Chilled by Laboratory: <u>John Hartley</u>		QC Temp: <u>45° F</u>		Other: <u>10 Day TAT</u>														
Preservative Key: <u>1:HCl 2:HNO3 3:H2SO4 4:NaOH 5:Na2SO4 6:NaHSO4 7:Other</u>		Shipped by: <u>John Hartley</u>		Received by: <u>John Hartley</u>		Date: <u>1-24-08</u>		Time: <u>12:00 PM</u>		Other: <u>24 Hours</u>														
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Signed by Laboratory: <u>John Hartley</u>		Date: <u>1-24-08</u>		Time: <u>12:00 PM</u>		Other: <u>24 Hours</u>		Other: <u>24 Hours</u>																
Signed by Laboratory: <u>John Hartley</u>		Date: <u>1-24-08</u>		Time: <u>12:00 PM</u>		Other: <u>24 Hours</u>		Other: <u>24 Hours</u>																
Signed by Laboratory: <u>John Hartley</u>		Date: <u>1-24-08</u>		Time: <u>12:00 PM</u>		Other: <u>24 Hours</u>		Other: <u>24 Hours</u>																
Signed by Laboratory: <u>John Hartley</u>		Date: <u>1-24-08</u>		Time: <u>12:00 PM</u>		Other: <u>24 Hours</u>		Other: <u>24 Hours</u>																
Signed by Laboratory: <u>John Hartley</u>		Date: <u>1-24-08</u>		Time: <u>12:00 PM</u>		Other: <u>24 Hours</u>		Other: <u>24 Hours</u>																
Signed by Laboratory: <u>John Hartley</u>		Date: <u>1-24-08</u>		Time: <u>12:00 PM</u>		Other: <u>24 Hours</u>		Other: <u>24 Hours</u>																
Signed by Laboratory: <u>John Hartley</u>		Date: <u>1-24-08</u>		Time: <u>12:00 PM</u>		Other: <u>24 Hours</u>		Other: <u>24 Hours</u>																
Signed by Laboratory: <u>John Hartley</u>		Date: <u>1-24-08</u>		Time: <u>12:00 PM</u>		Other: <u>24 Hours</u>		Other: <u>24 Hours</u>																
Signed by Laboratory: <u>John Hartley</u>		Date: <u>1-24-08</u>		Time: <u>12:00 PM</u>		Other: <u>24 Hours</u>		Other: <u>24 Hours</u>																
Signed by Laboratory: <u>John Hartley</u>		Date: <u>1-24-08</u>		Time: <u>12:00 PM</u>		Other: <u>24 Hours</u>		Other: <u>24 Hours</u>																
Signed by Laboratory: <u>John Hartley</u>		Date: <u>1-24-08</u>		Time: <u>12:00 PM</u>		Other: <u>24 Hours</u>		Other: <u></u>																

ALS Laboratory Group

Date: 09-Jul-08

Client: Navajo Refining Company
Project: Lovington Lea Refining-Monthly
Sample ID: City Waste Water
Collection Date: 6/24/2008 08:00 AM

Work Order: 0806555

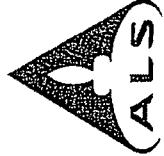
Lab ID: 0806555-01

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER						
Benzene	0.0081	0.0010	mg/L	1	6/26/2008 07:19 PM	Analyst: WLR
Toluene	0.0029	0.0010	mg/L	1	6/26/2008 07:19 PM	
Ethylbenzene	0.022	0.0010	mg/L	1	6/26/2008 07:19 PM	
Xylenes, Total	0.035	0.0030	mg/L	1	6/26/2008 07:19 PM	
Surr: 4-Bromofluorobenzene	98.6	77-129	%REC	1	6/26/2008 07:19 PM	
Surr: Trifluorotoluene	98.4	75-130	%REC	1	6/26/2008 07:19 PM	
ICP METALS, TOTAL - SW6020A						
Chromium	0.00706	0.00500	mg/L	1	6/30/2008 02:34 PM	Prep Date: 6/27/2008 Analyst: ALR
MISCELLANEOUS ANALYSIS						
Miscellaneous Analysis	See Attached		NA		1	Analyst: MAG
						7/3/2008
ANIONS BY ION CHROMATOGRAPHY						
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	6/25/2008 02:36 PM	Analyst: PV
Surr: Selenate (surr)	94.8	85-115	%REC	1	6/25/2008 02:36 PM	
OIL AND GREASE						
Oil and Grease	9.78	1.00	mg/L	1	7/1/2008 01:00 PM	Analyst: MAM
SULFIDE						
Sulfide	4.80	1.00	mg/L	1	6/30/2008 11:00 AM	Analyst: KKP
TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids (Residue, Filterable)	2,730	10.0	mg/L	1	6/27/2008 06:00 PM	Analyst: KKP

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time



Chain of Custody Form

Customer Information

Purchase Order: Work Order: ALS Project Manager: ALS Work Order #:

Page 1 of 1

Project Information

Project Name: Lovington Lea Refining-Monthly

Project Number: A

Bill To Company: Navajo Refining Company

Invoice Attn: Darrell Moore

Address: 509 East Main

City/State/Zip: Artesia, NM 88211

Phone: (505) 748-3311

Fax: (505) 746-5421

E-Mail Address: Cjg@elitewater.com

Sample Description: CJG Water Water

Date: 6-16-05

Time: 8:00 AM

Matrix: 4

Pres: 9

Bottles: 1

Temp:

Comments:

Hold:

Sign:

Initials:

Signature:

Date:

Time:

Comments:

Hold:

Sign:

Initials:

Signature:

Date:

Time:

ALS Laboratory Group

Date: 04-Jun-08

Client: Navajo Refining Company
Project: Lovington Lea Refining-Monthly
Sample ID: City Waste Water
Collection Date: 5/22/2008 08:30 AM

Work Order: 0805534
Lab ID: 0805534-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER						
Benzene	0.035		0.0010	mg/L	1	5/29/2008 04:35 PM
Toluene	0.028		0.0010	mg/L	1	5/29/2008 04:35 PM
Ethylbenzene	0.029		0.0010	mg/L	1	5/29/2008 04:35 PM
Xylenes, Total	0.056		0.0030	mg/L	1	5/29/2008 04:35 PM
<i>Surr: 4-Bromofluorobenzene</i>	104		77-129	%REC	1	5/29/2008 04:35 PM
<i>Surr: Trifluorotoluene</i>	126		75-130	%REC	1	5/29/2008 04:35 PM
MISCELLANEOUS ANALYSIS						
Miscellaneous Analysis	See attached		NA			Analyst: MAG 5/29/2008
ANIONS BY ION CHROMATOGRAPHY						
Nitrate/Nitrite (as N)	ND		0.100	mg/L	1	5/23/2008 12:40 PM
<i>Surr: Selenate (surr)</i>	89.8		85-115	%REC	1	5/23/2008 12:40 PM
OIL AND GREASE						
Oil and Grease	3.60		1.00	mg/L	1	5/30/2008 01:00 PM
SULFIDE						
Sulfide	3.40		E376.1	1.00	mg/L	Analyst: KKP 5/28/2008 09:00 AM
TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids (Residue, Filterable)	1,670		E160.1	10.0	mg/L	Analyst: KKP 5/27/2008 03:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

AR Page 1 of 1

0805478

Subcontractor:
e-Lab Analytical, Inc.
3352 128th Ave.
Holland, MI 49424

TEL: (616) 399-6070
FAX: (616) 399-6185
Acct #: 080534

CHART-OF-CUSTODY RECORD

Page 1 of 1

Date: 23-May-08
COC ID: 6392
Due Date 04-Jun-08

Customer Information

Purchase Order	Project Name	0805534	Project Information
Work Order	Project Number		
Company Name	Bill To Company	c-Lab Analytical, Inc.	Parameter/Method Request for Analysis
Send Report To	Inv Attn	Accounts Payable	A. Miscellaneous Analysis (NA)
Address	Address	10450 Stanchif Rd, Suite 210	B. Ammonia as N (SM4500 NH3-B-F)
City/State/Zip	City/State/Zip	Houston, Texas 77099-4338	C
Phone	Phone	(281) 530-5656	D
Fax	Fax	(281) 530-5887	E
eMail Address	eMail CC	glenda.ramos@alsenviro.com	F
Sample ID	Matrix	Collection Date 24hr	G
	Water	5/22/2008 8:30	H
0805534-01F (City Waste Water)		(1) 250PH2SO4	I
		X	J

Comments:

Please analyze for TKN & Ammonia.

Relinquished by:

Date/Time

Received by:

Date/Time

Cooler IDs

Report/QC Level

Collector: 3.2°C (S)

Received by:

Report/QC Level

e-Lab Analytical, Inc.

Date: 13-May-08

Client: Navajo Refining Company
Project: Lovington Lea Refining-Monthly
Sample ID: City Waste Water
Collection Date: 4/28/2008 08:00 AM

Work Order: 0804585
Lab ID: 0804585-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER			SW8021B			Analyst: WLR
Benzene	0.035		0.0010	mg/L	1	5/1/2008 11:14 AM
Toluene	0.010		0.0010	mg/L	1	5/1/2008 11:14 AM
Ethylbenzene	0.043		0.0010	mg/L	1	5/1/2008 11:14 AM
Xylenes, Total	0.072		0.0030	mg/L	1	5/1/2008 11:14 AM
Surr: 4-Bromofluorobenzene	106		77-129	%REC	1	5/1/2008 11:14 AM
Surr: Trifluorotoluene	89.1		75-130	%REC	1	5/1/2008 11:14 AM
MISCELLANEOUS ANALYSIS			NA			Analyst: MAG
Miscellaneous Analysis	See Attached				1	5/1/2008
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: RPM
Nitrate/Nitrite (as N)	ND		1.00	mg/L	10	5/9/2008 01:44 AM
Surr: Selenate (surr)	104		85-115	%REC	10	5/9/2008 01:44 AM
NITRITE AS N			E354.1			Analyst: PV
Nitrogen, Nitrite	0.0750		0.0100	mg/L	1	4/29/2008 08:30 AM
OIL AND GREASE			E1664			Analyst: MAM
Oil and Grease	20.6		1.00	mg/L	1	5/5/2008 02:30 PM
SULFIDE			E376.1			Analyst: KKP
Sulfide	5.40		1.00	mg/L	1	4/30/2008 04:00 PM
TOTAL DISSOLVED SOLIDS			E160.1			Analyst: KKP
Total Dissolved Solids (Residue, Filterable)	2,140		10.0	mg/L	1	4/30/2008 03:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

ALS Laboratory Group

Date: 07-May-08

Client: ALS Laboratory Group**Project:** 0804585**Sample ID:** 0804585-01E**Collection Date:** 4/28/2008 08:00 AM**Work Order:** 0804585**Lab ID:** 0804585-01**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
AMMONIA AS NITROGEN Ammonia as Nitrogen	7.50		SM 4500-NH3 B 0.200	mg NH3-N/L	10	Analyst: SB 5/1/2008 03:25 PM
NITROGEN, TOTAL KJELDAHL Nitrogen, Total Kjeldahl	11.6		SM 4500-N B 1.00	mg/L	1	Prep Date: 4/30/2008 Analyst: SB 5/2/2008 12:14 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time



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e-Lab Analytical, Inc.

3352 129th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Chain of Custody Form

Page 1 of 1

Customer Information

Project Manager:		Parameter/Method Request for Analysis											
Work Order #:		Work Order #:											
Customer Information		Project Information											
Project Number:	Lovington Lea Refining-Monthly	Project Name:	A. BTTEX (8021)										
Company Name:	Navajo Refining Company	Address:	B. Anions (300) NO ₃ , NO ₂										
Supervisor:	Darrell Moore	City/State/Zip:	C. Ammonia										
Supervision:	509 East Main	Phone:	D. TKN										
Address:	Artesia, NM 88211	Fax:	E. Oil & Grease										
CN/Series#:	(505) 748-3311	E-Mail Address:	F. TDS										
Phone:	(505) 746-5421	Sample Description:	Date:	Time:	Matrix:	Pres.	Batch:	Conc.	Conc.	Conc.	Conc.	Conc.	
Fax:		Notes:											
Overall Address:		Received by:											
Samples Please Print & Sign:		Date:	Time:										
Released by:	<i>Robert Berry</i>	Date:	Time:										
Published by:		Data:	Time:										
Shipment Method:	Received by:	Received by:	Received by:	Received by:	Received by:	Received by:	Received by:	Received by:	Received by:	Received by:	Received by:	Received by:	
Chilled by:	Chilled by:	Chilled by:	Chilled by:	Chilled by:	Chilled by:	Chilled by:	Chilled by:	Chilled by:	Chilled by:	Chilled by:	Chilled by:	Chilled by:	
Logbook by (Initials):	Date:	Date:	Date:	Date:	Date:	Date:	Date:	Date:	Date:	Date:	Date:	Date:	
Preservative Key:	1-HNO ₃	2-HNO ₃	3-HClO ₄	4-NaOH	5-NaSO ₄	6-NaCl	7-CuSO ₄	8-CuCl ₂	9-CuCl ₂	10-CuCl ₂	11-CuCl ₂	12-CuCl ₂	
Results Due Date:	<input checked="" type="checkbox"/> 1 Day	<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days	<input type="checkbox"/> 4 Days	<input type="checkbox"/> 5 Days	<input type="checkbox"/> 6 Days	<input type="checkbox"/> 7 Days	<input type="checkbox"/> 8 Days	<input type="checkbox"/> 9 Days	<input type="checkbox"/> 10 Days	<input type="checkbox"/> 11 Days	<input type="checkbox"/> 12 Days	
QC Package:	<input checked="" type="checkbox"/> Colorimetric	<input type="checkbox"/> Colorimetric	<input type="checkbox"/> Colorimetric	<input type="checkbox"/> Colorimetric	<input type="checkbox"/> Colorimetric	<input type="checkbox"/> Colorimetric	<input type="checkbox"/> Colorimetric	<input type="checkbox"/> Colorimetric	<input type="checkbox"/> Colorimetric	<input type="checkbox"/> Colorimetric	<input type="checkbox"/> Colorimetric	<input type="checkbox"/> Colorimetric	
Comments:													

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

e-Lab Analytical, Inc.

Date: April 09, 2008

Client: Navajo Refining Company
Project: City Waste Water Lovington Lea Refining-Monthly **Work Order:** 0803474
Sample ID: City Waste Water **Lab ID:** 0803474-01
Collection Date: 3/26/2008 8:15:00 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER						
Benzene	0.0067		0.0010	mg/L	1	Analyst: WLR 3/29/2008 8:15:00 AM
Toluene	0.0017		0.0010	mg/L	1	3/29/2008 8:15:00 AM
Ethylbenzene	0.015		0.0010	mg/L	1	3/29/2008 8:15:00 AM
Xylenes, Total	0.032		0.0030	mg/L	1	3/29/2008 8:15:00 AM
Surr: 4-Bromofluorobenzene	103		77-129	%REC	1	3/29/2008 8:15:00 AM
Surr: Trifluorotoluene	107		75-130	%REC	1	3/29/2008 8:15:00 AM
MISCELLANEOUS ANALYSIS						
Miscellaneous Analysis	See Attached		NA			Analyst: MAG 3/31/2008
ANIONS BY ION CHROMATOGRAPHY						
Nitrogen, Nitrate (As N)	0.188		E300			Analyst: PV 3/27/2008 1:37:00 PM
Nitrogen, Nitrite (As N)	3.86		0.100	mg/L	1	3/27/2008 1:37:00 PM
Surr: Selenate (surr)	92.1		85-115	%REC	1	3/27/2008 1:37:00 PM
OIL AND GREASE						
Oil and Grease	5.44		E1664			Analyst: MAM 3/28/2008 1:30:00 PM
1.00			1.00	mg/L	1	
SULFIDE						
Sulfide	ND		E376.1			Analyst: KKP 3/31/2008 9:00:00 AM
1.00			1.00	mg/L	1	
TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids (Residue, Filterable)	2,130		E160.1			Analyst: KKP 3/27/2008 1:00:00 PM
10.0			10.0	mg/L	1	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

ALS Laboratory Group

Date: 08-Apr-08

Client: ALS Laboratory Group**Project:** 0803474**Sample ID:** 0803474-01E**Collection Date:** 3/26/2008 8:15:00 AM**Work Order:** 0803501**Lab ID:** 0803501-01**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
AMMONIA AS NITROGEN Ammonia as Nitrogen	7.82		SM 4500-NH3 B 0.200	mg NH3-N/L	10	Analyst: SB 3/31/2008 11:10:00 AM
NITROGEN, TOTAL KJELDAHL Nitrogen, Total Kjeldahl	10.3		SM 4500-N B 1.00	mg/L	Prep Date: 4/1/2008 1	Analyst: SB 4/1/2008 11:20:00 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

Subcontractor:
e-Lab Analytical Inc.
3352 128th Ave.

Holland, MI 49424
TEL: (616) 399-6070
FAX: (616) 399-6185
Acct#:

CHAIN-OF-CUSTODY RECORD

080350
Date: Mar 27, 2008
COC ID: 6148
Due Date 4/8/2008

Page 1 of 1

Customer Information

Purchase Order

Work Order

Company Name

Send Report To

Address

City/State/Zip

Phone

Fax

eMail Address

Sample ID

Matrix

Collection Date

Bottle

Water

3/26/2008 8:15

(1) 250PH2SO4

Project Information
Project Name 0803474
Project Number

Bill To Company

e-Lab Analytical, Inc.

Inv Attn

Accounts Payable

10450 Stancliff Rd, Suite 210

Address

Houston, Texas 77099-4338

Phone

(281) 530-5656

Fax

(281) 530-5887

eMail CC

glenda.raines@alsenviro.com

Collection Date

3/26/2008 8:15

Bottle

Water

3/26/2008 8:15

(1) 250PH2SO4

Parameter/Method Request for Analysis
A Miscellaneous Analysis (NA)
B
C
D
E
F
G
H
I
J

Comments:

Please analyze for TKN & NH₃.

Relinquished by:

Date/Time

Received by:

Date/Time

Cooler IDs

Report/DOC Level

Relinquished by:

Date/Time

Received by:

Date/Time

Cooler IDs

Report/DOC Level

3/27/08

3/28/08 10:00

e-Lab Analytical, Inc.

Date: March 10, 2008

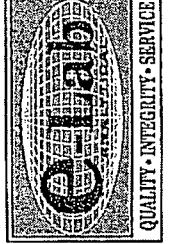
Client: Navajo Refining Company
Project: Lovington Lea Refining-Monthly
Sample ID: City Waste Water
Collection Date: 2/27/2008 9:00:00 AM

Work Order: 0802541
Lab ID: 0802541-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER						
Benzene	0.033		0.0010	mg/L	1	3/1/2008 7:53:00 AM
Toluene	0.0028		0.0010	mg/L	1	3/1/2008 7:53:00 AM
Ethylbenzene	0.024		0.0010	mg/L	1	3/1/2008 7:53:00 AM
Xylenes, Total	0.044		0.0030	mg/L	1	3/1/2008 7:53:00 AM
Surr: 4-Bromofluorobenzene	125		77-129	%REC	1	3/1/2008 7:53:00 AM
Surr: Trifluorotoluene	108		75-130	%REC	1	3/1/2008 7:53:00 AM
ANIONS BY ION CHROMATOGRAPHY						
Nitrate/Nitrite (as N)	ND		0.100	mg/L	1	2/28/2008 1:23:00 PM
Surr: Selenate (surr)	99.7		85-115	%REC	1	2/28/2008 1:23:00 PM
OIL AND GREASE						
Oil and Grease	6.94		1.00	mg/L	1	3/3/2008 3:00:00 PM
SULFIDE						
Sulfide	4.00		1.00	mg/L	1	2/29/2008 4:00:00 PM
TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids (Residue, Filterable)	1,810		10.0	mg/L	1	2/28/2008 5:00:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time



e-Lab Analytical, Inc.
10450 Stancilff Rd. #210
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Chain of Custody Form

e-Lab Analytical, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185



Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis					
Customer Purchase Order#		Project Name	Lovington Lea Refining-Monthly	BTEX	(8021)				
Work Order#		Project Number		Arilons	(300) NO3,NO2				
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	G	Ammonia				
Send Report To	Darrell Moore	Invoice Attn	Darrell Moore	D	TKN				
Address	509 East Main	Address	509 East Main	E	Oil & Grease				
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	G	Sulfide				
Phone	(505) 748-3311	Phone	(505) 748-3311	H					
Fax	(505) 746-5421	Fax	(505) 746-5421	I					
E-Mail Address		E-Mail Address		J					
No.	Sample Description	Date	Time	Matrix	# Bottles				
1	City Water (10) Liter	2-27-01	9:00	U	Y	8			
2									
3									
4									
5									
6									
7									
8									
9									
10									
Bellinghousen by: <u>Sophie Terry</u>		Date: 27-27-01	Time: 9:30	Shipment Method	Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> 10 Wk Days <input checked="" type="checkbox"/> 5 Wk Days <input checked="" type="checkbox"/> 2 Wk Days <input checked="" type="checkbox"/> 1 Wk Days <input checked="" type="checkbox"/> 5 Day TAT	Received by: <u>M. S. Terry</u>	Cooler ID:	Cooler Temp:	QC Package: (Check One Box Below)
Relinquished by: <u>Sophie Terry</u>		Date: 27-27-01	Time: 9:30	Shipment Method	Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> 10 Wk Days <input checked="" type="checkbox"/> 5 Wk Days <input checked="" type="checkbox"/> 2 Wk Days <input checked="" type="checkbox"/> 1 Wk Days <input checked="" type="checkbox"/> 5 Day TAT	Received by (Laboratory): <u>M. S. Terry</u>	Checked by (Laboratory): <u>M. S. Terry</u>	Other: <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> 24-Hour <input checked="" type="checkbox"/> 48-Hour <input checked="" type="checkbox"/> 72-Hour <input checked="" type="checkbox"/> 5 Day TAT	Results Due Date: <input checked="" type="checkbox"/> Level II Std QC <input checked="" type="checkbox"/> Level III Std QC/Row Data <input checked="" type="checkbox"/> Level IV SW846/CLP <input checked="" type="checkbox"/> Other
Preservative Key: <u>Hg</u> <u>HgCl2</u> <u>HgNO3</u> <u>H2SO4</u> <u>Na2CO3</u> <u>NaHSO4</u> <u>NaOH</u> <u>NaCl</u>		Date: 27-27-01	Time: 9:30	Shipment Method	Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> 10 Wk Days <input checked="" type="checkbox"/> 5 Wk Days <input checked="" type="checkbox"/> 2 Wk Days <input checked="" type="checkbox"/> 1 Wk Days <input checked="" type="checkbox"/> 5 Day TAT	Received by: <u>M. S. Terry</u>	Cooler ID:	Cooler Temp:	QC Package: (Check One Box Below)
		Date: 27-27-01	Time: 9:30	Shipment Method	Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> 10 Wk Days <input checked="" type="checkbox"/> 5 Wk Days <input checked="" type="checkbox"/> 2 Wk Days <input checked="" type="checkbox"/> 1 Wk Days <input checked="" type="checkbox"/> 5 Day TAT	Received by (Laboratory): <u>M. S. Terry</u>	Checked by (Laboratory): <u>M. S. Terry</u>	Other: <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> 24-Hour <input checked="" type="checkbox"/> 48-Hour <input checked="" type="checkbox"/> 72-Hour <input checked="" type="checkbox"/> 5 Day TAT	Results Due Date: <input checked="" type="checkbox"/> Level II Std QC <input checked="" type="checkbox"/> Level III Std QC/Row Data <input checked="" type="checkbox"/> Level IV SW846/CLP <input checked="" type="checkbox"/> Other

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.

2. In place of signatures named in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

e-Lab Analytical, Inc.

Date: February 11, 2008

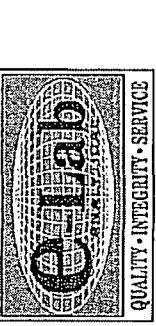
Client: Navajo Refining Company
Project: Lovington Lea Refining-Monthly
Sample ID: City Waste Water
Collection Date: 1/29/2008 8:00:00 AM

Work Order: 0801595
Lab ID: 0801595-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX, WATER						
Benzene	0.47		0.010	mg/L	10	1/31/2008 4:01:00 PM
Toluene	0.25		0.010	mg/L	10	1/31/2008 4:01:00 PM
Ethylbenzene	0.12		0.010	mg/L	10	1/31/2008 4:01:00 PM
Xylenes, Total	0.22		0.030	mg/L	10	1/31/2008 4:01:00 PM
Surrogate: 4-Bromofluorobenzene	122		77-129	%REC	10	1/31/2008 4:01:00 PM
Surrogate: Trifluorotoluene	98.5		75-130	%REC	10	1/31/2008 4:01:00 PM
ANIONS BY ION CHROMATOGRAPHY						
Nitrogen, Nitrate (As N)	0.166		0.100	mg/L	1	1/30/2008 6:37:00 PM
Nitrogen, Nitrite (As N)	ND		0.100	mg/L	1	1/30/2008 6:37:00 PM
Surrogate: Selenate (surrogate)	104		85-115	%REC	1	1/30/2008 6:37:00 PM
OIL AND GREASE						
Oil and Grease	9.33		1.00	mg/L	1	2/5/2008 2:00:00 PM
SULFIDE						
Sulfide	5.20		1.00	mg/L	1	2/1/2008 1:00:00 PM
TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids (Residue, Filterable)	2,250		10.0	mg/L	1	1/30/2008 12:00:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time



e-Lab Analytical, Inc.
10450 Stanchill Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

3-Lab Analytical, Inc.
33352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Page 1 of 1

Customer Information

Customer Information		Project Information		Parameter/Method Request for Analysis											
		Project Name: Lovington Lea Refining-Monthly		BTEX (8021)											
Purchase Order#		Project Number:		Total Sample Qty: <u>100</u> / <u>95</u>											
Work Order#		To Company: Navajo Refining Company		Actions (300) NO3, NO2											
Contract Name:		Invoice Address: Darrell Moore		Ammonia											
Send Report To:		City/State/Zip: Artesia, NM 88211		TKN											
Address:		Phone: (505) 748-3311		Sulfide											
Fax:		FAX: (505) 746-5421		Oil & Grease											
e-Mail Address:		Sample Description: City Water Wastewater		# Bottles: 1											
Note:		Date: 1-29-08		Time: 8:00 AM											
Sample #:		Matrix: <u>Water</u>		Press: <u>None</u>											
Reliinquished by: <u>DeeDee Henry</u>		Shipment Method: Received by: <u>CJ</u>		QC Package Checked On Box Below											
Reliinquished by: <u>DeeDee Henry</u>		Time: 1:29:08 Date: 1-30-08		Results Due Date: 10 Day TAI											
Logged by (Laboratory):		Required Turnaround Time (Check Box):		Other: <u>10 Day TAI</u>											
Representative Key: 1-HGCH2O, 2-HNO3, 3-HSO4, 4-NaOH, 5-NS, 6-NaHSO4		Time: 5 Wk Days: <input checked="" type="checkbox"/> 5 Wk Days: <input type="checkbox"/> 2 Wk Days: <input type="checkbox"/> 1 Wk Days: <input type="checkbox"/>		Level II Std QC <input checked="" type="checkbox"/>											
		Time: 5 Wk Days: <input checked="" type="checkbox"/> 5 Wk Days: <input type="checkbox"/> 2 Wk Days: <input type="checkbox"/> 1 Wk Days: <input type="checkbox"/>		Level III Std QC/Raw Data <input type="checkbox"/>											
		Time: 5 Wk Days: <input checked="" type="checkbox"/> 5 Wk Days: <input type="checkbox"/> 2 Wk Days: <input type="checkbox"/> 1 Wk Days: <input type="checkbox"/>		Level IV SW846/CLP <input type="checkbox"/>											
		Time: 5 Wk Days: <input checked="" type="checkbox"/> 5 Wk Days: <input type="checkbox"/> 2 Wk Days: <input type="checkbox"/> 1 Wk Days: <input type="checkbox"/>		Other <input type="checkbox"/>											
TRRP Checklist		TRRP Level IV													

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to c-Lab Analytical, Inc.

Form have been submitted to e-Lab Analytical, Inc.

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