

**NM1 -**

**6**

---

**C-138**

**YEAR(S):**

**2003**

---

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                           | 4. Generator Quail Tools       |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5. Originating Site Odessa, TX |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6. Transporter Unknown         |
| 7. Location of Material (Street Address or ULSTR) 400 Alabama, Odessa, TX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8. State New Mexico            |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                |

**BRIEF DESCRIPTION OF MATERIAL:**

RE: 12-10-03 (renewal of previous C-138)

Sump Sludge generated from steam cleaning oilfield tools.

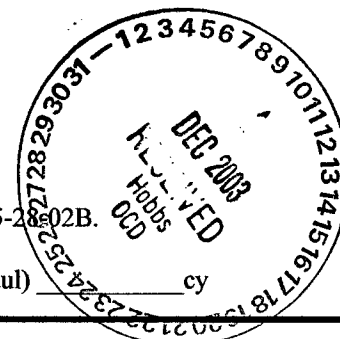
Enclosed is non-exempt certificate of waste status, analytical data and chain of custody, Previous C-138 05-28-02B.

Estimated Volume approx 30 yds yearly Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 12-10-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com



|                            |              |             |
|----------------------------|--------------|-------------|
| (This space for State Use) |              |             |
| APPROVED BY: _____         | TITLE: _____ | DATE: _____ |
| APPROVED BY: _____         | TITLE: _____ | DATE: _____ |



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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

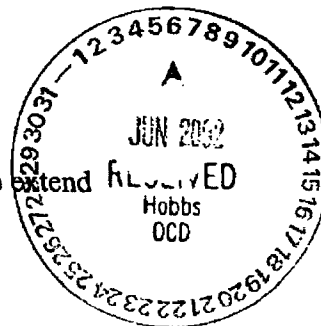
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                     | 4. Generator Quail Tools            |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5. Originating Site Odessa Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6. Transporter Unknown              |
| 7. Location of Material (Street Address or ULSTR) 400 Alabama, Odessa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8. State New Mexico                 |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved<br><br>All transporters must certify the wastes delivered are only those consigned for transport. |                                     |

BRIEF DESCRIPTION OF MATERIAL:

05-28-02B

Sump sludge generated from steam cleaning oilfield tools.

Enclosed is certificate of waste status, analytical data, and chain of custody to extend this process through the year 2003.



*Please Resample Next time mjk*

Estimated Volume appx. 30 cu. yards yearly cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Carmella Van Maanen TITLE: Bookkeeper DATE: 05-28-02  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO: (505) 393-1079

|                                 |                                      |                     |
|---------------------------------|--------------------------------------|---------------------|
| (This space for State Use)      |                                      |                     |
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>Environmental Engineer</u> | DATE: <u>6/1/02</u> |

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR QUAIL TOOLS

ADDRESS 400 W. Alabama Odessa, TX

GENERATING SITE 400 W. Alabama, Odessa, TX

COUNTY Ector STATE TX

TYPE OF WASTE Caustic Vat Water / Sludge

ESTIMATED VOLUME ~ 20 YD<sup>3</sup>

GENERATING PROCESS CAUSTIC VAT WASHING

UNIT

REMARKS NON-HAZARDOUS ; Preassigned Profile on Record  
wt. NMOCO

NMOC FACILITY CR I

TRUCKING COMPANY TOTAL JETTING INC

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Bo Vizecand  
SIGNATURE

NAME BO VIZECAND  
PRINTED

ADDRESS #9 E Industrial  
Midland, TX 79701

DATE 10/27/03

**AMARILLO:**

921 North Bivins  
Amarillo, TX 79107  
806-467-0607  
FAX: 806-467-0622  
E-mail:  
prescott@llano-permian.com

**AUSTIN:**

13009 Dessau Road  
Suite A  
Austin, TX 78754  
512-989-3428  
FAX: 512-989-3487  
E-mail:  
jfreeman@llano-permian.com

**CORPUS CHRISTI:**

600 Building  
Suite 1624  
600 Leopard  
Corpus Christi, TX 78473  
361-884-6400  
FAX: 361-884-6426  
E-mail:  
ahornes@llano-permian.com

**MIDLAND:**

9 East Industrial Loop  
Midland, TX 79701  
432-522-2133  
FAX: 432-522-2180  
E-mail:  
tjames@llano-permian.com

**NEW BRAUNFELS:**

555 IH-35 South  
Suite 320-I  
New Braunfels, TX 78130  
830-620-1634  
FAX: 800-863-5670  
E-mail:  
millsaps@llano-permian.com

**Environmental:****Chemists****Biologists****Geologists****Scientists****Corrective Action  
Project Managers**

October 3, 2003

Mr. David Parsons  
Controlled Recovery Inc.  
P.O. Box 388  
Hobbs, NM 88241

Subject: Sludge from Quail Tools, Inc. Facility, 400 W. Alabama,  
Odessa, TX

Dear Mr. Parsons:

The intent of this letter is to notify CRI that the sludge stream at this facility has not changed. The process by which the sludge is generated remains identical and all sludge produced by current practices is typical. Please evaluate the current waste stream data and see if Quail Tool can ship their sludge under the present waste stream number. Thank you.

Sincerely,  
LLANO-PERMIAN ENVIRONMENTAL

A handwritten signature in black ink, appearing to read 'Bo Vizcaino'.

Moises "Bo" Vizcaino  
Sr. Project Manager

Nov 26 03 05:07p

P - 6

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

JO VIZCAINO  
LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701

Order#: G0307961  
Project: QUT.001.W11  
Project Name: Quail Tool  
Location: Odessa, Tx

Lab ID: 0307962-01  
Sample ID: Pipe Scale

**RCI**

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> | <u>Dilution Factor</u> | <u>RL</u> | <u>Method</u> | <u>Date Analyzed</u> | <u>Analyst</u> |
|------------------|---------------|--------------|------------------------|-----------|---------------|----------------------|----------------|
| Ignitability     | >100          | C            | 1                      | NA        | 1010          | 11/18/03             | JLH            |
| pH               | 7.12          | pH units     | 1                      | N/A       | 9045C         | 11/18/03             | SB             |
| Reactive Cyanide | <0.09         | mg/kg        | 1                      | 0.09      | SW846 CH.7    | 11/18/03             | SB             |
| Reactive Sulfide | <5.00         | mg/kg        | 1                      | 5.00      | SW846 CH.7    | 11/18/03             | SB             |

**Test Parameters**

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> | <u>Dilution Factor</u> | <u>RL</u> | <u>Method</u> | <u>Date Analyzed</u> | <u>Analyst</u> |
|------------------|---------------|--------------|------------------------|-----------|---------------|----------------------|----------------|
| TiPH 418.1 FTIR  | 4970          | mg/kg        | 1                      | 10.0      | 418.1         | 11/20/03             | SB             |

Approval: Roland K. Tuttle 11-26-03  
 Roland K. Tuttle, Lab Director, QA Officer  
 Celey D. Keene, Org. Tech. Director  
 Jeannette McMurrey, Inorg. Tech. Director  
 Sandra Blasugbo, Lab Tech.  
 Sara Molina, Lab Tech.

Nov 26 03 05:06p

p. 3

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

BO VIZCAINO  
LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701

Order#: G0307962  
Project: OUF.001.WD  
Project Name: Quail Tool  
Location: Odessa, TX

Lab ID: 0307962-01  
Sample ID: Pipe Seals

### 8260B TCLP

| Method     | Date     | Date     | Sample | Dilution | Analyst | Method     |
|------------|----------|----------|--------|----------|---------|------------|
| Blank      | Prepared | Analyzed | Amount | Factor   |         |            |
| 0007563-02 | 11/18/03 | 11/25/03 | 5      | 1        | CK      | 1311/8260B |
|            |          | 20:53    |        |          |         |            |

| Parameter            | Result<br>µg/l. | RL   |
|----------------------|-----------------|------|
| Carbon tetrachloride | <1              | 1.00 |
| Benzene              | <1              | 1.00 |
| 1,2-Dichloroethane   | <1              | 1.00 |
| Chlorobenzene        | <1              | 1.00 |
| 1,1-Dichloroethene   | <1              | 1.00 |
| 1,4-Dichlorobenzene  | <1              | 1.00 |
| 2-Butanone (MEK)     | <1              | 1.00 |
| Chloroform           | <1              | 1.00 |
| Tetrachloroethene    | <1              | 1.00 |
| Trichloroethene      | <1              | 1.00 |
| Vinyl chloride       | <1              | 1.00 |

| Surrogates            | % Recovered | QC Limits (%) |     |
|-----------------------|-------------|---------------|-----|
| Dibromofluoromethane  | 128%        | 53            | 144 |
| 1,2-dichloroethane-d4 | 123%        | 57            | 147 |
| Toluene-d8            | 110%        | 64            | 128 |
| 4-Bromofluorobenzene  | 109%        | 47            | 158 |

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

## **ANALYTICAL REPORT**

### **Prepared for:**

**BO VIZCAINO  
LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701**

**Project:** Quail Tool

**PO#:**

**Order#:** G0307962

**Report Date:** 11/26/2003

### **Certificates**

**US EPA Laboratory Code TX00158**

Nov 26 03 05:08p

P. 0

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****8260B TCLP****Order#: G0307962**

| <b>SRM</b>           | <b>SOLID</b> | <b>LAB ID #</b> | <b>Sample<br/>Concentr.</b> | <b>Splice<br/>Concentr.</b> | <b>QC Test<br/>Result</b> | <b>Pct (%)<br/>Recovery</b> | <b>RPD</b> |
|----------------------|--------------|-----------------|-----------------------------|-----------------------------|---------------------------|-----------------------------|------------|
| Vinyl chloride-µg/L. |              | 0007563-05      |                             | 50                          | 49.6                      | 99.2%                       |            |

Nov 26 03 05:08p

P. 9

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****8270C Semivolatile Organics - TCLP**

Order#: G0307962

| <b>BLANK</b>               | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
|----------------------------|-------|------------|------------------|-----------------|----------------|------------------|-------|
| Pyridine-µg/l.             |       | 0007544-02 |                  |                 | <5             |                  |       |
| 1,4-Dichlorobenzene-µg/l.  |       | 0007544-02 |                  |                 | <5             |                  |       |
| 2-Methylphenol-µg/L        |       | 0007544-02 |                  |                 | <5             |                  |       |
| Hexachloroethane-µg/l.     |       | 0007544-02 |                  |                 | <5             |                  |       |
| Nitrobenzene-µg/L          |       | 0007544-02 |                  |                 | <5             |                  |       |
| Hexachlorobutadiene-µg/L   |       | 0007544-02 |                  |                 | <5             |                  |       |
| 2,4,6-Trichlorophenol-µg/L |       | 0007544-02 |                  |                 | <5             |                  |       |
| 2,4,5-Trichlorophenol-µg/L |       | 0007544-02 |                  |                 | <5             |                  |       |
| 2,4-Dinitrotoluene-µg/L    |       | 0007544-02 |                  |                 | <5             |                  |       |
| Hexachlorobenzene-µg/l.    |       | 0007544-02 |                  |                 | <5             |                  |       |
| Pentachlorophenol-µg/L     |       | 0007544-02 |                  |                 | <5             |                  |       |
| 4-Methylphenol-µg/L        |       | 0007544-02 |                  |                 | <5             |                  |       |
| <b>CONTROL</b>             | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| 1,4-Dichlorobenzene-µg/l.  |       | 0007544-03 |                  | 100             | 75             | 75.0%            |       |
| 2,4-Dinitrotoluene-µg/L    |       | 0007544-03 |                  | 100             | 88             | 88.0%            |       |
| Pentachlorophenol-µg/L     |       | 0007544-03 |                  | 200             | 231            | 115.5%           |       |
| <b>CONTROL DUP</b>         | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| 1,4-Dichlorobenzene-µg/L   |       | 0007544-04 |                  | 100             | 56             | 56.0%            | 29.0% |
| 2,4-Dinitrotoluene-µg/L    |       | 0007544-04 |                  | 100             | 64             | 64.0%            | 31.6% |
| Pentachlorophenol-µg/L     |       | 0007544-04 |                  | 200             | 175            | 87.5%            | 27.6% |
| <b>SRM</b>                 | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| 1,4-Dichlorobenzene-µg/L   |       | 0007544-05 |                  | 50              | 57.7           | 115.4%           |       |
| 2,4,6-Trichlorophenol-µg/L |       | 0007544-05 |                  | 50              | 57.2           | 114.4%           |       |
| Pentachlorophenol-µg/L     |       | 0007544-05 |                  | 50              | 50.1           | 100.2%           |       |



Nov 26 03 05:08p

P.10

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****METALS RCRA 7 TCLP**

Order#: G0307962

| <b>BLANK</b>       | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
|--------------------|-------|------------|------------------|-----------------|----------------|------------------|------|
| Arsenic-mg/l.      |       | 0007489-02 |                  |                 | <0.008         |                  |      |
| Barium-mg/L        |       | 0007489-02 |                  |                 | <0.001         |                  |      |
| Cadmium-mg/l.      |       | 0007489-02 |                  |                 | <0.001         |                  |      |
| Chromium-mg/L      |       | 0007489-02 |                  |                 | <0.002         |                  |      |
| Lead-mg/L          |       | 0007489-02 |                  |                 | <0.011         |                  |      |
| Selenium-mg/L      |       | 0007489-02 |                  |                 | <0.004         |                  |      |
| Silver-mg/L        |       | 0007489-02 |                  |                 | <0.002         |                  |      |
| <b>CONTROL</b>     | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |       | 0007489-03 |                  | 0.8             | 0.844          | 105.5%           |      |
| Barium-mg/l.       |       | 0007489-03 |                  | 0.2             | 0.212          | 106.0%           |      |
| Cadmium-mg/L       |       | 0007489-03 |                  | 0.2             | 0.205          | 102.5%           |      |
| Chromium-mg/L      |       | 0007489-03 |                  | 0.2             | 0.206          | 103.0%           |      |
| Lead-mg/L          |       | 0007489-03 |                  | 1.1             | 1.15           | 104.5%           |      |
| Selenium-mg/L      |       | 0007489-03 |                  | 0.4             | 0.416          | 104.0%           |      |
| Silver-mg/L        |       | 0007489-03 |                  | 0.1             | 0.083          | 83.0%            |      |
| <b>CONTROL DUP</b> | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |       | 0007489-04 |                  | 0.8             | 0.846          | 105.7%           | 0.2% |
| Barium-mg/l.       |       | 0007489-04 |                  | 0.2             | 0.210          | 105.0%           | 0.9% |
| Cadmium-mg/L       |       | 0007489-04 |                  | 0.2             | 0.206          | 103.0%           | 0.5% |
| Chromium-mg/L      |       | 0007489-04 |                  | 0.2             | 0.211          | 105.5%           | 2.4% |
| Lead-mg/L          |       | 0007489-04 |                  | 1.1             | 1.15           | 104.5%           | 0.0% |
| Selenium-mg/L      |       | 0007489-04 |                  | 0.4             | 0.413          | 103.3%           | 0.7% |
| Silver-mg/L        |       | 0007489-04 |                  | 0.1             | 0.084          | 84.0%            | 1.2% |
| <b>SRM</b>         | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |       | 0007489-05 |                  | 1               | 0.996          | 99.6%            |      |
| Barium-mg/L        |       | 0007489-05 |                  | 1               | 1.01           | 101.0%           |      |
| Cadmium-mg/L       |       | 0007489-05 |                  | 1               | 1.01           | 101.0%           |      |
| Chromium-mg/L      |       | 0007489-05 |                  | 1               | 0.996          | 99.6%            |      |
| Lead-mg/L          |       | 0007489-05 |                  | 1               | 1.01           | 101.0%           |      |
| Selenium-mg/L      |       | 0007489-05 |                  | 1               | 1.01           | 101.0%           |      |
| Silver-mg/L        |       | 0007489-05 |                  | 0.5             | 0.498          | 99.6%            |      |

Nov 26 03 05:09p

p. 11

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

RCI

Order#: G0307962

| <b>BLANK</b>           | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
|------------------------|-------|------------|------------------|-----------------|----------------|------------------|------|
| pH-pH units            |       | 0007464-01 |                  |                 | 6.18           |                  |      |
| Reactive Cyanide-mg/kg |       | 0007461-01 |                  |                 | <0.09          |                  |      |
| Reactive Sulfide-mg/kg |       | 0007463-01 |                  |                 | <5.00          |                  |      |
| <b>CONTROL</b>         | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Reactive Cyanide-mg/kg |       | 0007461-02 |                  | 0.1             | 0.078          | 78.8%            |      |
| Reactive Sulfide-mg/kg |       | 0007463-02 |                  | 22.2            | 21.4           | 96.4%            |      |
| <b>CONTROL DUP</b>     | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Reactive Cyanide-mg/kg |       | 0007461-03 |                  | 0.1             | 0.075          | 75.8%            | 3.9% |
| Reactive Sulfide-mg/kg |       | 0007463-03 |                  | 22.2            | 21.7           | 97.7%            | 1.4% |
| <b>DUPLICATE</b>       | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Ignitability-C         |       | 0307962-01 | 0                |                 | <100.0         |                  | 0.8% |
| pH-pH units            |       | 0307962-01 | 7.12             |                 | 7.05           |                  | 1.8% |
| Reactive Cyanide-mg/kg |       | 0307962-01 | 0                |                 | <0.09          |                  | 0.8% |
| Reactive Sulfide-mg/kg |       | 0307962-01 | 0                |                 | <5.00          |                  | 0.8% |
| <b>SRM</b>             | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| pH-pH units            |       | 0007464-04 |                  | 7               | 6.93           | 99.8%            |      |
| Reactive Cyanide-mg/kg |       | 0007461-04 |                  | 1               | 1.11           | 111.8%           |      |
| Reactive Sulfide-mg/kg |       | 0007463-04 |                  | 680             | 690            | 101.5%           |      |

Nov 26 03 06:09P

p. 12

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### Test Parameters

Order#: G0307962

| <b>BLANK</b>         | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
|----------------------|-------|------------|------------------|-----------------|----------------|------------------|------|
| Mercury, TCLP-mg/L   |       | 0007484-01 |                  |                 | <0.0005        |                  |      |
| TPH 418.1 FTIR-mg/kg |       | 0007485-01 |                  |                 | <10.0          |                  |      |
| <b>CONTROL</b>       | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Mercury, TCLP-mg/L   |       | 0007484-02 |                  | 0.001           | 0.00094        | 94.4%            |      |
| <b>CONTROL DUP</b>   | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Mercury, TCLP-mg/L   |       | 0007484-03 |                  | 0.001           | 0.00096        | 96.4%            | 2.1% |
| <b>MS</b>            | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| TPH 418.1 FTIR-mg/kg |       | 0307962-01 | 4970             | 2560            | 7210           | 87.5%            |      |
| <b>MSD</b>           | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| TPH 418.1 FTIR-mg/kg |       | 0307962-01 | 4970             | 2560            | 7190           | 86.7%            | 0.3% |
| <b>SRM</b>           | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Mercury, TCLP-mg/L   |       | 0007484-04 |                  | 0.001           | 0.00094        | 94.4%            |      |
| TPH 418.1 FTIR-mg/kg |       | 0007485-04 |                  | 5120            | 5210           | 101.8%           |      |

13.

12680 West 1-20 East  
Odessa, Texas 79763

**Phone: 915-563-1800**  
**Fax: 915-563-1713**

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: BO VIZCAINO

Project Name: Quail Trail

Company Name LLANO-PERMAN ENVIRONMENTAL

Project #: QUT.001.WD

Company Address: 9 E INDUSTRIAL LOOP

Project Loc: Odessa, TX

City/State/Zip: MOBILE TX 36681

80

Telephone No: 432 522 2193

432 522 2180

**Sampler Signature:**

Boyd

[illegible]

060:50 20 92 80N

Nov. 26 2003 04:58PM P9

FAX NO.: 915522180

FROM: LLANO PERMIAN ENVIRONMENTAL

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                          | 4. Generator Navajo Refining    |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5. Originating Site Artesia, NM |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6. Transporter D & J            |
| 7. Location of Material (Street Address or ULSTR) 501 E Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8. State New Mexico             |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                 |

**BRIEF DESCRIPTION OF MATERIAL:**

RE: 12-23-03B

New Refractory Brick – pieces that were left from installation of new refractory during turnaround

Enclosed is non-exempt certificate of waste status and analytical data and chain of custody.  
This approval is good thru 12-23-04.

Estimated Volume 100 yards Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

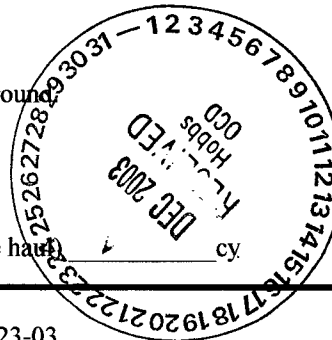
SIGNATURE Kim Flowers  
Waste Management Facility Authorized Agent

TITLE: Rep DATE: 12-23-03

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

|                                 |                                       |                       |
|---------------------------------|---------------------------------------|-----------------------|
| (This space for State Use)      |                                       |                       |
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>Governmental Eng</u>        | DATE: <u>12-24-03</u> |
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>Environmental Geologist</u> | DATE: <u>12-30-03</u> |



123003-1



## REFINING COMPANY, L.P.

## FAX

(505) 746-5283 DIV. ORDERS  
 (505) 746-5481 TRUCKING  
 (505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159  
 ARTESIA, NEW MEXICO 88211-0159  
 TELEPHONE (505) 748-3311

## FAX

(505) 746-5419 ACCOUNTING  
 (505) 746-5451 EXEC/MKTG  
 (505) 746-5421 ENGINEERING  
 (505) 746-5480 PIPELINE

December 18, 2003

Ken Marsh  
 CRI  
 P.O. Box 388  
 Hobbs, NM 88214

Ken,

|                   |              |         |                 |            |   |
|-------------------|--------------|---------|-----------------|------------|---|
| Post-It® Fax Note | 7671         | Date    | 11/6/03         | # of pages | 6 |
| To                | Ken Marsh    | From    | Charlie Plymale |            |   |
| Co./Dept.         |              | Co.     |                 |            |   |
| Phone #           |              | Phone # |                 |            |   |
| Fax #             | 505 393 3415 | Fax #   | 505 746 5285    |            |   |

I would like to have the asphalt C-138 extended for another year. This waste process has not changed.

I have also included analytical for new refractory brick that was generated during our recent turnaround. This consists of pieces and shavings from the installation of the new refractory brick. The refractory would be a one time disposal under this analytical. This material is NON HAZARDOUS and would be transported in 20 yard roll off bins by D & J waste haulers.

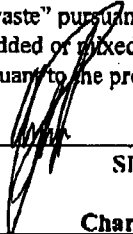
Sincerely,

Charlie Plymale  
 Sr. Environmental Specialist

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining CompanyADDRESS: 501 East MainGENERATING SITE: Navajo Refining Company Artes refineryCOUNTY: EddySTATE: NMTYPE OF WASTE: New Refractory brickESTIMATED VOLUME: 100 yardsGENERATING PROCESS: New Refractory Brick pieces that were left from  
Intallation of new refractory during turnaround.REMARKS: Analytical is included.NMOCD FACILITY: Controlled Recovery IncorporatedTRUCKING COMPANY: D and J in a 20 yard roll off bin

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT:  SIGNATURENAME: Charlie Plymale  
PRINTEDADDRESS: 501 EAST MAINARTESIA, NM 88210DATE: 12/18/03

**e-Lab, Inc.**

Date: December 08, 2003

CLIENT: Navajo Refining Company

Client Sample ID: Refractory Brick

Work Order: 0311275

Collection Date: 11/24/2003 11:30:00 AM

Project: TCLP Parameters

Lab ID: 0311275-02

Matrix: SOIL

| Analyses                   | Result | Report Limit | Qual | Units | Dilution Factor | Date Analyzed         |
|----------------------------|--------|--------------|------|-------|-----------------|-----------------------|
| <b>TCLP MERCURY</b>        |        |              |      |       |                 |                       |
| Mercury                    | ND     | 0.00200      |      | mg/L  | 1               | 12/4/2003 12:42:46 PM |
| <b>TCLP METALS, ICP</b>    |        |              |      |       |                 |                       |
| Arsenic                    | ND     | 0.0500       |      | mg/L  | 10              | 12/3/2003 8:23:00 PM  |
| Barium                     | 0.0556 | 0.0500       |      | mg/L  | 10              | 12/3/2003 8:23:00 PM  |
| Cadmium                    | ND     | 0.0500       |      | mg/L  | 10              | 12/3/2003 8:23:00 PM  |
| Chromium                   | ND     | 0.0500       |      | mg/L  | 10              | 12/3/2003 8:23:00 PM  |
| Lead                       | ND     | 0.0500       |      | mg/L  | 10              | 12/3/2003 8:23:00 PM  |
| Selenium                   | ND     | 0.0500       |      | mg/L  | 10              | 12/3/2003 8:23:00 PM  |
| Silver                     | ND     | 0.0500       |      | mg/L  | 10              | 12/3/2003 8:23:00 PM  |
| <b>TCLP SEMIVOLATILES</b>  |        |              |      |       |                 |                       |
| 2,4,5-Trichlorophenol      | ND     | 10           |      | µg/L  | 1               | 12/5/2003 4:08:00 PM  |
| 2,4,6-Trichlorophenol      | ND     | 10           |      | µg/L  | 1               | 12/5/2003 4:08:00 PM  |
| 2,4-Dinitrotoluene         | ND     | 10           |      | µg/L  | 1               | 12/5/2003 4:08:00 PM  |
| Cresols, Total             | ND     | 30           |      | µg/L  | 1               | 12/5/2003 4:08:00 PM  |
| Hexachlorobenzene          | ND     | 10           |      | µg/L  | 1               | 12/5/2003 4:08:00 PM  |
| Hexachlorobutadiene        | ND     | 10           |      | µg/L  | 1               | 12/5/2003 4:08:00 PM  |
| Hexachlorocyclohexane      | ND     | 10           |      | µg/L  | 1               | 12/5/2003 4:08:00 PM  |
| Nitrobenzene               | ND     | 10           |      | µg/L  | 1               | 12/5/2003 4:08:00 PM  |
| Pentachlorophenol          | ND     | 10           |      | µg/L  | 1               | 12/5/2003 4:08:00 PM  |
| Pyridine                   | ND     | 10           |      | µg/L  | 1               | 12/5/2003 4:08:00 PM  |
| Surr: 2,4,6-Tribromophenol | 97.1   | 45-146       |      | %REC  | 1               | 12/5/2003 4:08:00 PM  |
| Surr: 2-Fluorobiphenyl     | 79.5   | 55-120       |      | %REC  | 1               | 12/5/2003 4:08:00 PM  |
| Surr: 2-Fluorophenol       | 41.3   | 21-110       |      | %REC  | 1               | 12/5/2003 4:08:00 PM  |
| Surr: 4-Terphenyl-d14      | 122    | 42-153       |      | %REC  | 1               | 12/5/2003 4:08:00 PM  |
| Surr: Nitrobenzene-d5      | 86.7   | 51-117       |      | %REC  | 1               | 12/5/2003 4:08:00 PM  |
| Surr: Phenol-d6            | 28.6   | 10-110       |      | %REC  | 1               | 12/5/2003 4:08:00 PM  |
| <b>TCLP VOLATILES</b>      |        |              |      |       |                 |                       |
| 1,1-Dichloroethene         | ND     | 100          |      | µg/L  | 20              | 12/3/2003 11:22:00 PM |
| 1,2-Dichloroethane         | ND     | 100          |      | µg/L  | 20              | 12/3/2003 11:22:00 PM |
| 1,4-Dichlorobenzene        | ND     | 100          |      | µg/L  | 20              | 12/3/2003 11:22:00 PM |
| 2-Butanone                 | ND     | 200          |      | µg/L  | 20              | 12/3/2003 11:22:00 PM |
| Benzene                    | ND     | 100          |      | µg/L  | 20              | 12/3/2003 11:22:00 PM |
| Carbon tetrachloride       | ND     | 100          |      | µg/L  | 20              | 12/3/2003 11:22:00 PM |
| Chlorobenzene              | ND     | 100          |      | µg/L  | 20              | 12/3/2003 11:22:00 PM |
| Chloroform                 | ND     | 100          |      | µg/L  | 20              | 12/3/2003 11:22:00 PM |
| Tetrachloroethene          | ND     | 100          |      | µg/L  | 20              | 12/3/2003 11:22:00 PM |
| Trichloroethene            | ND     | 100          |      | µg/L  | 20              | 12/3/2003 11:22:00 PM |
| Vinyl chloride             | ND     | 100          |      | µg/L  | 20              | 12/3/2003 11:22:00 PM |

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 &gt; 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

AR Page 3 of 4



## e-Lab, Inc.

Date: December 08, 2003

CLIENT: Navajo Refining Company

Client Sample ID: Refractory Brick

Work Order: 0311275

Collection Date: 11/24/2003 11:30:00 AM

Project: TCLP Parameters

Lab ID: 0311275-02

Matrix: SOIL

| Analyses                             | Result | Report Limit              | Qual | Units    | Dilution Factor | Date Analyzed         |
|--------------------------------------|--------|---------------------------|------|----------|-----------------|-----------------------|
| Surr: 1,2-Dichloroethane-d4          | 92.1   | 70-130                    |      | %REC     | 20              | 12/3/2003 11:22:00 PM |
| Surr: 4-Bromofluorobenzene           | 98.8   | 70-130                    |      | %REC     | 20              | 12/3/2003 11:22:00 PM |
| Surr: Dibromofluoromethane           | 95.7   | 70-130                    |      | %REC     | 20              | 12/3/2003 11:22:00 PM |
| Surr: Toluene-d8                     | 99.0   | 70-130                    |      | %REC     | 20              | 12/3/2003 11:22:00 PM |
| <b>CYANIDE, REACTIVE</b>             |        | <b>SW-846</b>             |      |          |                 | <b>Analyst: MAG</b>   |
| Reactive Cyanide                     | ND     | 0.500                     |      | mg/Kg    | 1               | 12/2/2003             |
| <b>SULFIDE, REACTIVE</b>             |        | <b>SW-846</b>             |      |          |                 | <b>Analyst: MAG</b>   |
| Reactive Sulfide                     | ND     | 40.0                      |      | mg/Kg    | 1               | 12/2/2003             |
| <b>IGNITABILITY FOR SOLIDS</b>       |        | <b>SW846, CHPT. 7.1.2</b> |      |          |                 | <b>Analyst: LMD</b>   |
| Burns vigorously and persistently    | No     |                           |      |          | 1               | 12/4/2003             |
| Ignites spontaneously                | No     |                           |      |          | 1               | 12/4/2003             |
| Ignites through friction             | No     |                           |      |          | 1               | 12/4/2003             |
| Ignites under std. temp and pressure | No     |                           |      |          | 1               | 12/4/2003             |
| Ignites with moisture                | No     |                           |      |          | 1               | 12/4/2003             |
| <b>PH IN SOLID</b>                   |        | <b>SW9045B</b>            |      |          |                 | <b>Analyst: LMD</b>   |
| pH                                   | 11.6   | 0.100                     |      | pH Units | 1               | 12/4/2003             |

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 4 of 4



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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                | 4. Generator El Paso Company                                |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5. Originating Site Midland, Carlsbad, Pecos River Pipeline |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6. Transporter Chemical Transport, Inc.                     |
| 7. Location of Material (Street Address or ULSTR) Valve #9 Hwy 62 to Orla, TX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8. State New Mexico                                         |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><b>B</b> All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                             |

**BRIEF DESCRIPTION OF MATERIAL:**

RE: 12-12-03 (renewal of previous 09-16-03)

Wash water located in frac tank used to wash out pipeline. This is continuation of pipeline which was previously approved 09-16-03

Enclosed is non-exempt certificate of waste status, analytical data and chain of custody.

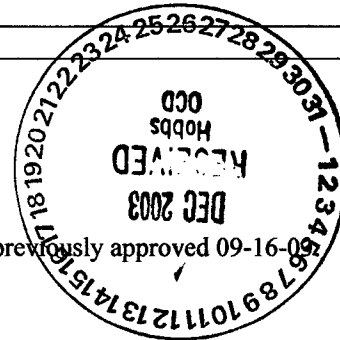
This approval is good thru 12-12-04.

Estimated Volume approx 70bbbls/monthly Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 12-12-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com



121703-1

|                                 |                                       |                       |
|---------------------------------|---------------------------------------|-----------------------|
| (This space for State Use)      |                                       |                       |
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>Enviro Engr</u>             | DATE: <u>12.12.03</u> |
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>Environmental Geologist</u> | DATE: <u>12-17-03</u> |

## CERTIFICATE OF WASTE STATUS

## NON-EXEMPT WASTE MATERIAL

"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR El Paso Natural Gas

ADDRESS \_\_\_\_\_

GENERATING SITE Valve #9 Hwy 62 to Orla TXCOUNTY \_\_\_\_\_ STATE NMTYPE OF WASTE washwaterESTIMATED VOLUME 70 BarrelsGENERATING PROCESS PIPE WASH.

REMARKS \_\_\_\_\_

NMOC FACILITY \_\_\_\_\_

TRUCKING COMPANY CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR Sections 261.3.

AGENT

James Morton

SIGNATURE

NAME

James Morton

PRINTED

ADDRESS Washington RanchStation For EPNG

DATE

11/17/2003

**LABORATORY SERVICE REPORT**

---

|               |                                                                |              |                  |
|---------------|----------------------------------------------------------------|--------------|------------------|
| REQUESTOR:    | Carson, Patrick V.<br>Carlsbad, NM, 88220<br>(505) 234-5408    | REPORT DATE: | 10/29/2003       |
|               |                                                                | REQUEST NO:  | 2003101216       |
|               |                                                                | APPROVED BY: | Darrell Campbell |
| DEPARTMENT:   | Carlsbad Area                                                  |              |                  |
| DISTRIBUTION: | Barta, George; Charlet, Larry; St. John, Robert; Whitney, Mark |              |                  |
| PERFORMED BY: | Accutest                                                       |              |                  |

---

|                      |                                         |
|----------------------|-----------------------------------------|
| Request Description: | Frack tank @ valve 9 (Pecos River P/L). |
| Date Received:       | 10/3/2003                               |
| Date Completed:      | 10/17/2003                              |

---

|            |   |              |                                                                               |             |              |              |                      |
|------------|---|--------------|-------------------------------------------------------------------------------|-------------|--------------|--------------|----------------------|
| Sample No: | 1 | Lab ID:      | 48650                                                                         | Sampled By: | Mark Whitney | Sample Date: | 10/2/2003 11:30:00 A |
|            |   | Description: |                                                                               |             |              |              |                      |
|            |   | Analysis:    | WP TCLP Anal (Aqueous)                                                        |             |              |              |                      |
|            |   | Purpose:     | Disposal/Environmental Concerns                                               |             |              |              |                      |
|            |   | Matrix:      | Water                                                                         |             |              |              |                      |
|            |   | Location:    | EPNG - Midland - Carlsbad - Pecos River Pipeline - 010 - Valve 9 - Frack Tank |             |              |              |                      |
| Sample No: | 2 | Lab ID:      | 48651                                                                         | Sampled By: | Mark Whitney | Sample Date: | 10/2/2003 11:35:00 A |
|            |   | Description: |                                                                               |             |              |              |                      |
|            |   | Analysis:    | WP TCLP & NORM Anal (Solid)                                                   |             |              |              |                      |
|            |   | Purpose:     | Disposal/Environmental Concerns                                               |             |              |              |                      |
|            |   | Matrix:      | Sludge                                                                        |             |              |              |                      |
|            |   | Location:    | EPNG - Midland - Carlsbad - Pecos River Pipeline - 0+0 - Valve 9 - Frack Tank |             |              |              |                      |

---

Data: See attached sheet(s).

Comments:

---

This report has been prepared for the private and exclusive use of El Paso Corporation and its affiliates and its delivery to any other person is upon the expressed understanding and condition that no representations or warranties, expressed or implied, are contained herein with respect to any of the information set forth in the report. If the purpose of this sample(s) is "External Corrosion", "Internal Corrosion", and/or "Pigging Samples", the interpretation of this report is the responsibility of Pipeline Services. Field Operations will only be contacted by Pipeline Services if the results require any action to be taken.

---

Request: 2003101216

Sample: 1

TCLP CharacteristicsIgnitability

Flash Point °F &gt; 210

Corrosivity

pH 6.1

Reactivity

Cyanide(Reactive) mg/Kg &lt; 0.4

Sulfide(Reactive) mg/Kg &lt; 8.0

TCLP Metals

Arsenic mg/l &lt; 0.50

Barium mg/l &lt; 1.0

Cadmium mg/l &lt; 0.0050

Chromium mg/l &lt; 0.010

Lead mg/l &lt; 0.50

Mercury mg/l &lt; 0.0013

Selenium mg/l &lt; 0.50

Silver mg/l &lt; 0.010

TCLP #260

1,1-Dichloroethene mg/l &lt; 0.050

1,2-Dichloroethane mg/l &lt; 0.050

1,4-Dichlorobenzene mg/l &lt; 0.050

Benzene mg/l &lt; 0.050

Carbon Tetrachloride mg/l &lt; 0.050

Chlorobenzene mg/l &lt; 0.050

Chloroform mg/l &lt; 0.050

2-Butanone mg/l &lt; 0.10

Tetrachloroethene mg/l &lt; 0.050

Trichloroethene mg/l &lt; 0.050

Vinyl Chloride mg/l &lt; 0.050

TCLP #270

1,4-Dichlorobenzene mg/l &lt; 0.050

2,4,5- Trichlorophenol mg/l &lt; 0.050

2,4,6- Trichlorophenol mg/l &lt; 0.050

2,4- Dinitrotoluene mg/l &lt; 0.050

Hexachlorobenzene mg/l &lt; 0.050

Hexachlorobutadiene mg/l &lt; 0.050

Hexachloroethane mg/l &lt; 0.050

Nitrobenzene mg/l &lt; 0.050

Penachlorophenol mg/l &lt; 0.25

Pyridine mg/l &lt; 0.050

2-Methylphenol mg/l &lt; 0.050

3&amp;4-Methylphenols, Total mg/l &lt; 0.050

PCB Analysis

Aroclor 1016 µg/l &lt; 0.56

Aroclor 1221 µg/l &lt; 0.56

Request: 2003101216

Sample:

|              |      | 1      |
|--------------|------|--------|
| Aroclor 1232 | µg/l | < 0.56 |
| Aroclor 1242 | µg/l | < 0.56 |
| Aroclor 1248 | µg/l | < 0.56 |
| Aroclor 1254 | µg/l | < 0.56 |
| Aroclor 1260 | µg/l | < 0.56 |

Request: 2003101216

Sample: 2

TCLP Characteristics

Ignitability  
 Ignitability >210

Corrosivity

pH SU 6.40

Reactivity

Cyanide(Reactive) mg/Kg < 0.4  
 Sulfide(Reactive) mg/Kg < 8.0

TCLP Metals

Arsenic mg/l 2.4  
 Barium mg/l < 1.0  
 Cadmium mg/l < 0.005  
 Chromium mg/l 0.016  
 Lead mg/l < 0.50  
 Mercury mg/l < 0.0013  
 Selenium mg/l < 0.50  
 Silver mg/l < 0.010

TCLP #260

1,1-Dichloroethene mg/l < 0.050  
 1,2-Dichloroethane mg/l < 0.050  
 1,4-Dichlorobenzene mg/l < 0.050  
 Benzene mg/l 0.0510  
 2-Butanone mg/l < 0.10  
 Carbon Tetrachloride mg/l < 0.050  
 Chlorobenzene mg/l < 0.050  
 Chloroform mg/l < 0.050  
 Tetrachloroethene mg/l < 0.050  
 Trichloroethene mg/l < 0.050  
 Vinyl Chloride mg/l < 0.050

TCLP #270

1,4-Dichlorobenzene mg/l < 0.050  
 2,4,5- Trichlorophenol mg/l < 0.050  
 2,4,6- Trichlorophenol mg/l < 0.050  
 2,4- Dinitrophenol mg/l < 0.050  
 2-Methylphenol mg/l 0.0519  
 3 & 4-Methylphenol, Total mg/l 0.0436  
 Hexachlorobenzene mg/l < 0.050  
 Hexachlorobutadiene mg/l < 0.050  
 Hexachloroethane mg/l < 0.050  
 Nitrobenzene mg/l < 0.050  
 Pentachlorophenol mg/l < 0.25  
 Pyridine mg/l < 0.050

PCB Analysis

Aroclor 1016 mg/Kg < 0.017  
 Aroclor 1221 mg/Kg < 0.017



Request: 2003101216

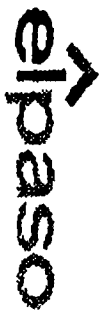
Sample:

2

|              |       |         |
|--------------|-------|---------|
| Aroclor 1232 | mg/Kg | < 0.017 |
| Aroclor 1242 | mg/Kg | < 0.017 |
| Aroclor 1248 | mg/Kg | < 0.017 |
| Aroclor 1254 | mg/Kg | < 0.017 |
| Aroclor 1260 | mg/Kg | < 0.017 |

NORM Analysis

|          |       |    |
|----------|-------|----|
| Lead-210 | pCi/g | NT |
| Lead-RPU | %     | NT |



## CHAIN OF CUSTODY RECORD

| USE NUMBER                                                                                                                                                                                                                                                    |      |      |   |            |   | PROJECT NAME  |   | REQUESTED ANALYSIS         |   |   |   |   |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|---|------------|---|---------------|---|----------------------------|---|---|---|---|--|--|
| 2003101216                                                                                                                                                                                                                                                    |      |      |   |            |   | Paso Verde Nc |   |                            |   |   |   |   |  |  |
| <div style="float: right;"> <b>SAMPLE INFORMATION</b><br/>           DATE: 10/2<br/>           TIME: 1130<br/>           MATRIX: A<br/>           SAMPLE NUMBER: 1         </div>                                                                             |      |      |   |            |   |               |   | TOTAL NUMBER OF CONTAINERS |   |   |   |   |  |  |
| <div style="float: right;"> <b>COMPOSITE OR GRAIN</b><br/>           TCLP Metals (RCRA)<br/>           TCLP B260<br/>           TCLP B270<br/>           Reactivity<br/>           Corrosivity<br/>           Ignitability<br/>           PCBs         </div> |      |      |   |            |   |               |   |                            |   |   |   |   |  |  |
| 1                                                                                                                                                                                                                                                             | 10/2 | 1130 | A | 1          |   | G             | X | X                          | X | X | X | X |  |  |
| 2                                                                                                                                                                                                                                                             | 10/2 | 1135 | S | 2          |   | G             | X | X                          | X | X | X | X |  |  |
| 3                                                                                                                                                                                                                                                             | 10/2 |      | A | Trip Blank | 1 |               | X |                            |   |   |   |   |  |  |

IF SAMPLE IS AN "S" MATRIX, PLEASE ADVISE THE LABORATORY

REMARKS

COMMENTS

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

SIGNATURE

DATE

TIME

RECEIVED BY

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED

DEC 03 2003

OIL CONSERVATION  
DIVISION

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                          | 4. Generator Reliable Machine  |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5. Originating Site Odessa, TX |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6. Transporter CRI             |
| 7. Location of Material (Street Address or ULSTR) 2035 W. 2 <sup>nd</sup> St., Odessa, TX                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8. State Texas                 |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                |

BRIEF DESCRIPTION OF MATERIAL:

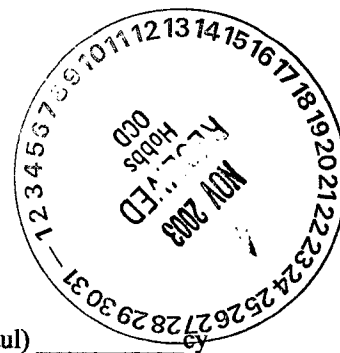
RE: 11-25-03A

Solid Sludge Material "SWARF"

Generated from grinding wheel used in polishing crank cases.

Enclosed is non-exempt certificate of waste status, analytical data and chain of custody.

Estimated Volume approx. 31 drums Known Volume (to be entered by the operator at the end of the haul)



SIGNATURE Kim Flowers TITLE: Rep DATE: 11-25-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

120303-3

|                                    |                                       |                      |
|------------------------------------|---------------------------------------|----------------------|
| (This space for State Use)         |                                       |                      |
| APPROVED BY: <u>DK Johnson</u>     | TITLE: <u>Environ Eng</u>             | DATE: <u>12-1-03</u> |
| APPROVED BY: <u>Monty J. Kelly</u> | TITLE: <u>Environmental Geologist</u> | DATE: <u>12-3-03</u> |

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY/GENERATOR RELIABLE MACHINE SHOP  
ADDRESS 2035 W 2nd St Odessa  
GENERATING SITE 2035 W 2nd St Odessa TX  
COUNTY Ector STATE TX  
TYPE OF WASTE SOLID SLUDGE MATERIAL "SWARF"  
ESTIMATED VOLUME 31 55 GAL DRUMS  
GENERATING PROCESS Grinding wheel used in polishing  
crankcases  
REMARKS Non-hazardous  
NMOCD FACILITY CONTROLLED RECOVERY INC.  
TRUCKING COMPANY UNKNOWN

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1989 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3.

AGENT Bo Vizcarro  
SIGNATURE  
NAME Bo Vizcarro  
PRINTED  
ADDRESS 9 E INDUSTRIAL LOOP  
Midland, TX 79701  
DATE Nov 20, 2003

# ENVIRONMENTAL LAB OF TEXAS

## SAMPLE WORK LIST

LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701  
522-2180

Order#: G0307796  
Project: REM 001 WD  
Project Name: Reliable Machine  
Location: Odessa, TX

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

| <u>Lab ID:</u>       | <u>Sample :</u> | <u>Matrix:</u> | <u>Date / Time</u><br><u>Collected</u> | <u>Date / Time</u><br><u>Received</u> | <u>Container</u> | <u>Preservative</u> |
|----------------------|-----------------|----------------|----------------------------------------|---------------------------------------|------------------|---------------------|
| 0307796-01           | SWARF           | SLUDGE         | 10/27/03<br>18:30                      | 10/28/03<br>8:00                      | 4 oz glass       | Ico                 |
| <u>Lab Testing:</u>  |                 | Rejected: No   | Temp: 4.0 C                            |                                       |                  |                     |
| 8260B Volatiles List |                 |                |                                        |                                       |                  |                     |
| 8270C - BNA          |                 |                |                                        |                                       |                  |                     |
| METALS RCRA 7 Total  |                 |                |                                        |                                       |                  |                     |
| RCI                  |                 |                |                                        |                                       |                  |                     |
| Mercury, Total       |                 |                |                                        |                                       |                  |                     |

**ENVIRONMENTAL LAB OF TEXAS**

Page 1 of 2

**ANALYTICAL REPORT**

RO VIZCAINO  
LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701

Order#: G0307796  
Project: REM 001 WD  
Project Name: Reliable Machine  
Location: Odessa, TX

Lab-ID: 0307796-01

Sample-ID: SWARF

| Date Collected    | Date Received    | Date Prepared | Date Analyzed    | Matrix | Sample Amount | Dilution Factor | Analyte | Method | Method Blank |
|-------------------|------------------|---------------|------------------|--------|---------------|-----------------|---------|--------|--------------|
| 10/27/03<br>10:30 | 10/28/03<br>8:00 |               | 11/5/03<br>16:24 | SLUDGE | 5             | 1               | CK      | 8260B  |              |

**8260B Volatiles List**

| Parameter                 | Result<br>µg/kg | RL   | Parameter                   | Result<br>µg/kg | RL   |
|---------------------------|-----------------|------|-----------------------------|-----------------|------|
| Dichlorodifluoromethane   | <25             | 25.0 | Chlorobenzene               | <25             | 25.0 |
| Chloromethane             | <25             | 25.0 | 1,1,1,2-Tetrachloroethane   | <25             | 25.0 |
| Vinyl chloride            | <25             | 25.0 | Ethylbenzene                | 27.7            | 25.0 |
| Bromomethane              | <25             | 25.0 | m,p-Xylene                  | <25             | 25.0 |
| Chloroethane              | <25             | 25.0 | o-Xylene                    | <25             | 25.0 |
| Trichlorofluoromethane    | <25             | 25.0 | Styrene                     | <25             | 25.0 |
| 1,1-Dichloroethene        | <25             | 25.0 | Bromoform                   | <25             | 25.0 |
| Acetone                   | <25             | 25.0 | trans-1,4-Dichloro-2-butene | <25             | 25.0 |
| Iodomethane               | <25             | 25.0 | Isopropylbenzene            | <25             | 25.0 |
| Carbon disulfide          | <25             | 25.0 | 1,2,3-Trichloropropane      | <25             | 25.0 |
| Methylene chloride        | <25             | 25.0 | 1,1,2,2-Tetrachloroethane   | <25             | 25.0 |
| MTBE                      | <25             | 25.0 | Bromobenzene                | <25             | 25.0 |
| trans-1,2-dichloroethene  | <25             | 25.0 | n-Propylbenzene             | <25             | 25.0 |
| Acrylonitrile             | <25             | 25.0 | 2-Chlorotoluene             | <25             | 25.0 |
| 1,1-Dichloroethane        | <25             | 25.0 | 1,3,5-Trimethylbenzene      | <25             | 25.0 |
| Vinyl acetate             | <25             | 25.0 | 4-Chlorotoluene             | <25             | 25.0 |
| cis-1,2-Dichloroethene    | <25             | 25.0 | tert-Butylbenzene           | <25             | 25.0 |
| 2-Butanone (MEK)          | <25             | 25.0 | 1,2,4-Trimethylbenzene      | <25             | 25.0 |
| Bromochloromethane        | <25             | 25.0 | sec-Butylbenzene            | <25             | 25.0 |
| Chloroform                | <25             | 25.0 | 1,3-Dichlorobenzene         | <25             | 25.0 |
| 1,1,1-Trichloroethane     | <25             | 25.0 | p-Isopropyltoluene          | <25             | 25.0 |
| 2,2-Dichloropropane       | <25             | 25.0 | 1,4-Dichlorobenzene         | <25             | 25.0 |
| Carbon tetrachloride      | <25             | 25.0 | n-Butylbenzene              | <25             | 25.0 |
| 1,1-Dichloropropene       | <25             | 25.0 | 1,2-Dichlorobenzene         | <25             | 25.0 |
| 1,2-Dichloromethane       | <25             | 25.0 | 1,2-Dibromo-3-chloropropane | <25             | 25.0 |
| Benzene                   | <25             | 25.0 | 1,2,4-Trichlorobenzene      | <25             | 25.0 |
| Trichloroethene           | <25             | 25.0 | 1,2,3-Trichlorobenzene      | <25             | 25.0 |
| 1,2-Dichloropropane       | <25             | 25.0 | 1,1,2,2-Tetrachloroethane   | <25             | 25.0 |
| Dibromomethane            | <25             | 25.0 | Naphthalene                 | 438             | 25.0 |
| Bromodichloromethane      | <25             | 25.0 |                             |                 |      |
| 2-Chloroethyl vinyl ether | <25             | 25.0 |                             |                 |      |
| cis-1,3-Dichloropropene   | <25             | 25.0 |                             |                 |      |
| 4-Methyl-2-pentanone      | <25             | 25.0 |                             |                 |      |
| Toluene                   | <25             | 25.0 |                             |                 |      |
| trans-1,3-Dichloropropene | <25             | 25.0 |                             |                 |      |
| 1,1,2-Trichloroethane     | <25             | 25.0 |                             |                 |      |
| 2-Hexanone                | <25             | 25.0 |                             |                 |      |
| Tetrachloroethene         | <25             | 25.0 |                             |                 |      |
| 1,3-Dichloropropane       | <25             | 25.0 |                             |                 |      |
| Dibromochloromethane      | <25             | 25.0 |                             |                 |      |
| 1,2-Dibromoethane         | <25             | 25.0 |                             |                 |      |

RL = Reporting Limit

Approval: *Alan D. Keene*  
Randall K. Tuttle, Lab Director, QA Officer  
Coley D. Keene, Org. Tech. Director

Date: 11/6/03

**ENVIRONMENTAL LAB OF TEXAS**

Page 2 of 2

**ANALYTICAL REPORT**

**BU VIZCAINO**  
**LLANO-PERMIAN ENVIRONMENTAL**  
**#9 EAST INDUSTRIAL LOOP**  
**MIDLAND, TX 79701**

**Order#:** G0307796  
**Project:** REM 001 WD  
**Project Name:** Reliable Machine  
**Location:** Odessa, TX

Lab-ID: 0307796-01

Sample-ID: SWARF

| Date Collected    | Date Received    | Date Prepared | Date Analyzed     | Matrix | Sample Amount | Dilution Factor | Analyst | Method | Method Blank |
|-------------------|------------------|---------------|-------------------|--------|---------------|-----------------|---------|--------|--------------|
| 10/27/03<br>18:30 | 10/28/03<br>8:00 | 10/29/03      | 10/31/03<br>17:06 | SLUDGE | 1             | 1               | CK      | 8270C  |              |

**8270C - BNA**

| Parameter                    | Result<br>µg/kg | RL  | Parameter                   | Result<br>µg/kg | RL  |
|------------------------------|-----------------|-----|-----------------------------|-----------------|-----|
| Pyridine                     | <200            | 200 | 2,3,4,6-Tetrachlorophenol   | <200            | 200 |
| N-Nitrosodimethylamine       | <200            | 200 | 2,4-Dinitrotoluene          | <200            | 200 |
| Aniline                      | <200            | 200 | Diethylphthalate            | <200            | 200 |
| Phenol                       | <200            | 200 | Fluorene                    | <200            | 200 |
| bis(2-Chloroethyl) Ether     | <200            | 200 | 4-Chlorophenyl-phenylether  | <200            | 200 |
| 2-Chlorophenol               | <200            | 200 | 4-Nitroaniline              | <200            | 200 |
| 1,3-Dichlorobenzene          | <200            | 200 | Azobenzene                  | <200            | 200 |
| 1,4-Dichlorobenzene          | <200            | 200 | 4,6-Dinitro-2-methylphenol  | <200            | 200 |
| 1,2-Dichlorobenzene          | <200            | 200 | N-Nitrosodiphenylamine      | <200            | 200 |
| Benzyl Alcohol               | <200            | 200 | 4-Bromophenyl-phenylether   | <200            | 200 |
| Bis(2-chloroisopropyl) ether | <200            | 200 | Hexachlorobenzene           | <200            | 200 |
| 2-Methylphenol               | <200            | 200 | Pentachlorophenol           | <200            | 200 |
| N-Nitroso-di-n-propylamine   | <200            | 200 | Phenanthrene                | <200            | 200 |
| 4-Methylphenol               | <200            | 200 | Anthracene                  | <200            | 200 |
| Hexachloroethane             | <200            | 200 | Carbazole                   | <200            | 200 |
| Nitrobenzene                 | <200            | 200 | Di-n-Butylphthalate         | <200            | 200 |
| Isophorone                   | <200            | 200 | Fluoranthene                | <200            | 200 |
| 2-Nitrophenol                | <200            | 200 | Benzidine                   | <200            | 200 |
| 2,4-Dimethylphenol           | <200            | 200 | Pyrene                      | <200            | 200 |
| bis(2-Chloroethoxy) methane  | <200            | 200 | Butylbenzylphthalate        | <200            | 200 |
| 2,4-Dichlorophenol           | <200            | 200 | Benzo(a)anthracene          | <200            | 200 |
| Benzoic Acid                 | <200            | 200 | Chrysene                    | <200            | 200 |
| 1,2,4-Trichlorobenzene       | <200            | 200 | bis(2-Ethylhexyl) phthalate | 468             | 200 |
| Naphthalene                  | <200            | 200 | Di-n-octylphthalate         | <200            | 200 |
| 4-Chloroaniline              | <200            | 200 | Benzo(b)fluoranthene        | <200            | 200 |
| Hexachlorobutadiene          | <200            | 200 | Benzo(k)fluoranthene        | <200            | 200 |
| 4-Chloro-3-methylphenol      | <200            | 200 | Benzo(a)pyrene              | <200            | 200 |
| 2-Methylnaphthalene          | <200            | 200 | Indeno(1,2,3-cd)Pyrene      | <200            | 200 |
| Hexachlorocyclopentadiene    | <200            | 200 | Dibenzo(a,h)Anthracene      | <200            | 200 |
| 2,4,5-Trichlorophenol        | <200            | 200 | Benzo(g,h,i)Perylene        | <200            | 200 |
| 2,4,6-Trichlorophenol        | <200            | 200 | 3,3-Dichlorobenzidine       | <200            | 200 |
| 2-Chloronaphthalene          | <200            | 200 |                             |                 |     |
| 2-Nitroaniline               | <200            | 200 |                             |                 |     |
| Dimethylphthalate            | <200            | 200 |                             |                 |     |
| 2,6-Dinitrotoluene           | <200            | 200 |                             |                 |     |
| 3-Nitroaniline               | <200            | 200 |                             |                 |     |
| Acenaphthylene               | <200            | 200 |                             |                 |     |
| Acenaphthene                 | <200            | 200 |                             |                 |     |
| 2,4-Dinitrophenol            | <200            | 200 |                             |                 |     |
| 4-Nitrophenol                | <200            | 200 |                             |                 |     |
| Dibenzofuran                 | <200            | 200 |                             |                 |     |

| Surrogates           | % Recovered | QC Limits (%) |     |
|----------------------|-------------|---------------|-----|
| 2-Fluorophenol       | 10%         | 21            | 110 |
| Phenol-d5            | 14%         | 10            | 110 |
| Nitrobenzene-d5      | 16%         | 23            | 120 |
| 2-Fluorobiphenyl     | 17%         | 30            | 116 |
| 2,4,6-Tribromophenol | 6%          | 10            | 123 |
| p-Terphenyl-d14      | 18%         | 18            | 137 |

RL = Reporting Limit

Approval: *Coley D. Keene*  
 Roland K. Tuttle, Lab Director, QA Officer  
 Coley D. Keene, Org. Tech. Director

Date

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

BO VIZCAINO  
LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701

Order#: G0307796  
Project: REM 001 WD  
Project Name: Reliable Machine  
Location: Odessa, TX

Lab ID: 0307796-01

Sample ID: SWARF

### **METALS RCRA 7 Total**

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> | <u>Dilution<br/>Factor</u> | <u>RL</u> | <u>Method</u> | <u>Date<br/>Prepared</u> | <u>Date<br/>Analyzed</u> | <u>Analyst</u> |
|------------------|---------------|--------------|----------------------------|-----------|---------------|--------------------------|--------------------------|----------------|
| Arsenic          | < 0.40        | mg/kg        | 50                         | 0.40      | 3050/6010B    | 10/31/2003               | 11/4/03                  | SM             |
| Barium           | 25.0          | mg/kg        | 50                         | 0.050     | 3050/6010B    | 10/31/2003               | 11/4/03                  | SM             |
| Cadmium          | 14.8          | mg/kg        | 50                         | 0.050     | 3050/6010B    | 10/31/2003               | 11/4/03                  | SM             |
| Chromium         | 2,160         | mg/kg        | 500                        | 1.0       | 3050/6010B    | 10/31/2003               | 11/4/03                  | SM             |
| Lead             | 83.5          | mg/kg        | 50                         | 0.550     | 3050/6010B    | 10/31/2003               | 11/4/03                  | SM             |
| Selenium         | < 0.20        | mg/kg        | 50                         | 0.20      | 3050/6010B    | 10/31/2003               | 11/4/03                  | SM             |
| Silver           | < 0.10        | mg/kg        | 50                         | 0.10      | 3050/6010B    | 10/31/2003               | 11/4/03                  | SM             |

### **Test Parameters**

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> | <u>Dilution<br/>Factor</u> | <u>RL</u> | <u>Method</u> | <u>Date<br/>Prepared</u> | <u>Date<br/>Analyzed</u> | <u>Analyst</u> |
|------------------|---------------|--------------|----------------------------|-----------|---------------|--------------------------|--------------------------|----------------|
| Mercury, Total   | 4.02          | mg/kg        | 1000                       | 0.50      | 7471          | 10/31/2003               | 11/4/03                  | SM             |

Approval: *Celcy D. Keene* 11/4/03

Roland K. Tuttle, Lab Director, QA Officer

Date

Celcy D. Keene, Org. Tech. Director

Jeanne McMurrey, Inorg. Tech. Director

Sandra Bierzoghe, Lab Tech.

Sara Molina, Lab Tech.

N/A = Not Applicable      RL = Reporting Limit

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800



# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

BO VIZCAINO  
LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701

Order#: G0307796  
Project: REM 001 WD  
Project Name: Reliable Machine  
Location: Odessa, TX

Lab ID: 0307796-01

Sample ID: SWARF

### RCI

| Parameter        | Result | Units    | Dilution<br>Factor | RL   | Method     | Date<br>Analyzed | Analyst |
|------------------|--------|----------|--------------------|------|------------|------------------|---------|
| Ignitability     | >100.0 | C        | 1                  | NA   | 1010       | 10/28/03         | JLH     |
| pH               | 8.67   | pH units | 1                  | N/A  | 9045C      | 10/28/03         | SB      |
| Reactive Cyanide | <0.09  | mg/kg    | 1                  | 0.09 | SW846 CH.7 | 10/28/03         | SB      |
| Reactive Sulfide | <5.00  | mg/kg    | 1                  | 5.00 | SW846 CH.7 | 10/28/03         | SB      |

Approval: *Coley D. Keene 11/6/03*

Roland K. Tuttle, Lab Director, QA Officer  
Coley D. Keene, Org. Tech. Director  
Jeanne McMurrey, Inorg. Tech. Director  
Sandra Biezugbe, Lab Tech.  
Sara Molina, Lab Tech.

Date

RL - Reporting Limit N/A - Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

Nov 14 03 09:40p

p.2

## ENVIRONMENTAL LAB OF TEXAS

### SAMPLE WORK LIST

LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701  
522-2180

Order#: G0307883  
Project: REM.001.WD  
Project Name: Reliable Machine  
Location: Odessa, TX

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

| <u>Lab ID:</u>      | <u>Sample :</u> | <u>Matrix:</u> | <u>Date / Time</u><br><u>Collected</u> | <u>Date / Time</u><br><u>Received</u> | <u>Container</u> | <u>Preservative</u> |
|---------------------|-----------------|----------------|----------------------------------------|---------------------------------------|------------------|---------------------|
| 0307883-01          | SWAMP           | SLUDGE         | 10/27/03<br>18:30                      | 10/28/03<br>8:00                      | 4 oz glass       | Ice                 |
| <u>Lab Testing:</u> |                 | Rejected: No   | Temp: 4.0 C                            |                                       |                  |                     |
| Cadmium, TCLP       |                 |                |                                        |                                       |                  |                     |
| Chromium, TCLP      |                 |                |                                        |                                       |                  |                     |
| Lead, TCLP          |                 |                |                                        |                                       |                  |                     |
| Mercury, TCLP       |                 |                |                                        |                                       |                  |                     |

Nov 14 03 03:40p

p. 3

## ENVIRONMENTAL LAB OF TEXAS

### ANALYTICAL REPORT

BO VIZCAINO  
LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701

Order#: G0307883  
Project: REM.001.WD  
Project Name: Reliable Machine  
Location: Odessa, TX

Lab ID: 0307883-01  
Sample ID: SWART

#### Test Parameters

| Parameter      | Result  | Units | Dilution<br>Factor | RL     | Method     | Date<br>Prepared | Date<br>Analyzed | Analyst |
|----------------|---------|-------|--------------------|--------|------------|------------------|------------------|---------|
| Cadmium, TCLP  | 0.050   | mg/L  | 1                  | 0.001  | 1311/6010B | 11/10/2003       | 11/12/03         | SM      |
| Chromium, TCLP | <0.002  | mg/L  | 1                  | 0.002  | 1311/6010B | 11/10/2003       | 11/12/03         | SM      |
| Lead, TCLP     | 0.031   | mg/L  | 1                  | 0.011  | 1311/6010B | 11/10/2003       | 11/12/03         | SM      |
| Mercury, TCLP  | <0.0005 | mg/L  | 1                  | 0.0005 | 1311/7470  | 11/10/2003       | 11/12/03         | SM      |

Approval: Roland K. Tuttle 11-12-03  
Roland K. Tuttle, Lab Director, QA Officer  
Coley D. Keene, Org. Tech. Director  
Jeanne McMurrey, Inorg. Tech. Director  
Sandra Niezuga, Lab Tech.  
Sara Molina, Lab Tech.

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

RELATIVE MAJORITY

REN 001 477

Odessa, TX

1

04E:11 ED 20 ADN

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED

DEC 03 2003

OIL CONSERVATION  
DIVISION

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Schlumberger Wireline and Testing |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Hobbs Facility             |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter CRI                             |
| 7. Location of Material (Street Address or ULSTR) 2527 W Bender, Hobbs, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8. State New Mexico                            |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                |

BRIEF DESCRIPTION OF MATERIAL:

RE: 11-25-03 (renewal of 11-22-02A)

Wash Bay Sump Sludge generated from the washing of trucks, equipment and tool washing.

This was previous approved 11-22-02, Analytical dated 08-30-02.

Enclosed is non-exempt certificate of waste status, analytical data and chain of custody to extend this process until November 30, 2004.

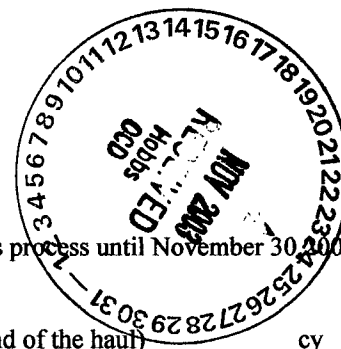
Estimated Volume approx. 400 bbls annually Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers  
Waste Management Facility Authorized Agent

TITLE: Rep DATE: 11-25-03

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com



(This space for State Use)

APPROVED BY: [Signature]

TITLE: Environ Eng

DATE: 12-1-03

APPROVED BY: [Signature]

TITLE: Environmental Geologist

DATE: 12-3-03

1205021

1025 N. Francis Dr., Hobbs, NM 88240  
District II  
1001 W. Grand Avenue, Aztec, NM 88210  
District III  
1800 Rio Pecos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

DEC 02 2002

Environmental Bureau  
Oil Conservation Division

Form C-138  
Rev and March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 1. RCRA Exempt <input type="checkbox"/> Non-Exempt <input checked="" type="checkbox"/><br>( Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> )                                                                                                                                                                                                                                                                                                                                                         | 4. Generator Schlumberger Wireline And Testing |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Hobbs Facility             |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6. Transporter CRI                             |
| 7. Location of Material (Street Address or ULSTR) 2527 West Bender, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8. State New Mexico                            |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator, one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                |

BRIEF DESCRIPTION OF MATERIAL.

11-22-02A

Wash Bay Sump Sludge generated from truck, equipment, and tool washing

Enclosed is non-exempt certificate of waste status, analytical data, and chain of custody to extend this process until November 30, 2003.



Estimated Volume approx. 400 bbls. annually. cyKnown Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Carmella Van Maanen TITLE Bookkeeper DATE 11-22-02  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

|                                 |                                        |                       |
|---------------------------------|----------------------------------------|-----------------------|
| (This space for State Use)      |                                        |                       |
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>Env. Eng.</u>                | DATE: <u>11/23/02</u> |
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>Environmental Technology</u> | DATE: <u>12/2/02</u>  |

Nov 24 03 03:48p

C R I

5053933615

P. 2

CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Schlumberger. REW  
ADDRESS 2527 W. BENDER Hobbs N.M. 88240  
GENERATING SITE 2527 W. BENDER Hobbs.  
COUNTY Lea STATE N.M.  
TYPE OF WASTE WASH BAY SUMP SLUDGE  
ESTIMATED VOLUME 400 BBLs  
GENERATING PROCESS TRUCK, Equipment & Tool Washing

REMARKS Disposal For 1<sup>ST</sup> Week of Dec.  
NMOCD FACILITY ?  
TRUCKING COMPANY CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT [Signature]  
SIGNATURE  
NAME M. L. Wood Jr.  
PRINTED  
ADDRESS 2527 W. BENDER  
Hobbs, N.M. 88240  
DATE 11-25-03

*Pace Analytical Services, Inc.*  
800 General Avenue  
Houston, TX 77056  
Phone: (281) 488-1810  
Fax: (281) 488-1661



**Report of Laboratory Analysis**  
**Project Number: 2022255**







## Report of Laboratory Analysis

Pace Analytical Services, Inc.  
900 Gordin Avenue  
Houston, TX 77058

Phone: (281) 488-1810  
Fax: (281) 488-4661

www.pacelabs.com

Client: Schlumberger

Client ID: WASH BAY SUMP SLUDGE

Site:

Project: Hobbs/Wash Bay Sump Sludge

Project No.: 2022255

Sample Qu:

Lab ID: 851824152

Matrix: Soil

% Moisture: Not Corrected

Description:

Prep Level: Soil

Batch: 31601

Method: EPA 8260

Units: mg/l

Target List: 8260 LL85

Collected: 10/20/03

Received: 10/21/03

Prep Factor: 10

Leached:

Prepared: 11/04/03

Analyzed: 11/04/03 11:48 JEW

| CAS Number | Parameter                | Dilution | Result | Qu    | Reporting Limit | Reg. Limit |
|------------|--------------------------|----------|--------|-------|-----------------|------------|
| 71-43-2    | Benzene                  | 1        | 0.0510 |       | 0.0500          |            |
| 78-93-3    | 2-Butanone (MEK)         | 1        | ND     |       | 1.00            |            |
| 56-23-5    | Carbon tetrachloride     | 1        | ND     |       | 0.0500          |            |
| 108-90-7   | Chlorobenzene            | 1        | ND     |       | 0.0500          |            |
| 67-66-3    | Chloroform               | 1        | 0.750  |       | 0.200           |            |
| 107-06-2   | 1,2-Dichloroethane       | 1        | ND     |       | 0.0500          |            |
| 75-35-4    | 1,1-Dichloroethene       | 1        | ND     |       | 0.0500          |            |
| 127-18-4   | Tetrachloroethene        | 1        | ND     |       | 0.0500          |            |
| 79-01-6    | Trichloroethene          | 1        | ND     |       | 0.0500          |            |
| 75-01-4    | Vinyl chloride           | 1        | ND     |       | 0.100           |            |
| 2037-26-5  | Toluene-d8 (S)           | 1        |        | 110 % |                 |            |
| 460-00-4   | 4-Bromofluorobenzene (S) | 1        |        | 110 % |                 |            |

12 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.  
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.  
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.  
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.  
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

11/4/2003 16:54:06



## Report of Laboratory Analysis

Pace Analytical Services, Inc.  
 800 General Avenue  
 Houston, TX 77055  
 Phone: (281) 488-1210  
 Fax: (281) 488-4951

www.pacelabs.com

Client: SCHLUMBERGERClient ID: WASH BAY SUMP SLUDGESite: NoneProject: Hobbs/Wash Bay Sump SludgeProject No.: 2022255

Sample Qu:

Lab ID: 851824152 LeachateMatrix: Soil% Moisture: Not CorrectedDescription: NonePrep Level: SoilBatch: 29975Method: SW 8270 TCLP Semivolatile OrganicsUnits: mg/LTarget List: 8270LLEACollected: 10/20/03Received: 10/21/03Prep Factor: 1Leached: 10/23/03Prepared: 10/24/03Analyzed: 10/28/03 22:57 AKE

| CAS Number | Parameter                               | Dilution | Result | Qu      | Reporting Limit | Reg. Limit |
|------------|-----------------------------------------|----------|--------|---------|-----------------|------------|
| 106-46-7   | 1,4-Dichlorobenzene (p-Dichlorobenzene) | 1        | ND     | C3      | 0.0400          | 7.50       |
| 121-14-2   | 2,4-Dinitrotoluene                      | 1        | ND     | C3      | 0.0400          | 0.130      |
| 118-74-1   | Hexachlorobenzene                       | 1        | ND     | C3      | 0.0400          | 0.130      |
| 87-68-3    | Hexachlorobutadiene                     | 1        | ND     | C3      | 0.0400          | 0.500      |
| 67-72-1    | Hexachloroethane                        | 1        | ND     | C3      | 0.0400          | 3.00       |
| 95-48-7    | 2-Methylphenol (o-Cresol)               | 1        | ND     | C3      | 0.0400          | 200.       |
| 108-39-4   | 3-Methylphenol (m-Cresol)               | 1        | ND     | A7 C3   | 0.0400          | 200.       |
| 106-44-5   | 4-Methylphenol (p-Cresol)               | 1        | ND     | A7 C3   | 0.0400          | 200.       |
| 98-95-3    | Nitrobenzene                            | 1        | ND     | C3      | 0.0400          | 2.00       |
| 87-86-5    | Pentachlorophenol                       | 1        | ND     | C3      | 0.100           | 100.       |
| 110-86-1   | Pyridine                                | 1        | ND     | C3      | 0.0400          | 5.00       |
| 95-95-4    | 2,4,5-Trichlorophenol                   | 1        | ND     | C3      | 0.100           | 400.       |
| 88-06-2    | 2,4,6-Trichlorophenol                   | 1        | ND     | C3      | 0.0400          | 2.00       |
| 4165-60-0  | Nitrobenzene-d5 (S)                     | 1        |        | 73 % C3 |                 |            |
| 321-60-8   | 2-Fluorobiphenyl (S)                    | 1        |        | 67 % C3 |                 |            |
| 1718-51-0  | Turphenyl-d14 (S)                       | 1        |        | 76 % C3 |                 |            |
| 4165-62-2  | Phenol-d5 (S)                           | 1        |        | 73 % C3 |                 |            |
| 367-12-4   | 2-Fluorophenol (S)                      | 1        |        | 68 % C3 |                 |            |
| 118-79-6   | 2,4,6-Tribromophenol (S)                | 1        |        | 92 % C3 |                 |            |

19 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.  
 DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.  
 Reporting Limit is corrected for sample size, dilution and moisture content if applicable.  
 Qu lists qualifiers. Specific qualifiers are defined at the end of the report.  
 For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

11/4/2003 16:54:06



## Report of Laboratory Analysis

Pace Analytical Services, Inc.  
500 Gentry Avenue  
Houston, TX 77056  
Phone: (281) 488-1550  
Fax: (281) 488-4551

www.pacelabs.com

Client ID: WASH BAY SUMP SLUDGEClient: SCHLUMBERGERProject: Hobbs/Wash Bay Sump SludgeSite: NoneLab ID: 851824152 LeachateProject No.: 2022255Description: NoneMatrix: Soil%Moisture: Not CorrectedCollected: 10/20/03Received: 10/21/03

| ParameterName | Method  | Batch | DF | Result | Qu | Units | Reporting Limit | Prep.     | Analysis            | Reg. Limit |
|---------------|---------|-------|----|--------|----|-------|-----------------|-----------|---------------------|------------|
| Arsenic       | SW 6010 | 31157 | 1  | ND     | C3 | mg/L  | 1.00            | 28-Oct-03 | 29-Oct-03 02:22 KJR | 5.00       |
| Barium        | SW 6010 | 31157 | 1  | ND     | C3 | mg/L  | 1.00            | 28-Oct-03 | 29-Oct-03 02:22 KJR | 100.       |
| Cadmium       | SW 6010 | 31157 | 1  | ND     | C3 | mg/L  | 0.100           | 28-Oct-03 | 29-Oct-03 02:22 KJR | 1.00       |
| Chromium      | SW 6010 | 31157 | 1  | ND     | C3 | mg/L  | 0.500           | 28-Oct-03 | 29-Oct-03 02:22 KJR | 5.00       |
| Lead          | SW 6010 | 31157 | 1  | ND     | C3 | mg/L  | 0.500           | 28-Oct-03 | 29-Oct-03 02:22 KJR | 5.00       |
| Mercury       | SW 7470 | 31158 | 1  | ND     | C3 | mg/L  | 0.000200        | 28-Oct-03 | 28-Oct-03 13:39 PJG | 0.200      |
| Selenium      | SW 6010 | 31157 | 1  | ND     | C3 | mg/L  | 0.200           | 28-Oct-03 | 29-Oct-03 02:22 KJR | 1.00       |
| Silver        | SW 6010 | 31157 | 1  | ND     | C3 | mg/L  | 0.500           | 28-Oct-03 | 29-Oct-03 02:22 KJR | 5.00       |

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.  
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.  
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.  
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.  
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.  
(1a) pH less than 2.0 or greater than 12.5 is hazardous for reactivity.  
(1b) Flash point less than 140 degrees F is hazardous for ignitability.  
(1c) Reactive cyanide above 250 ppm is hazardous for reactivity.  
(1d) Reactive sulfide above 500 ppm is hazardous for reactivity.  
Ethylene is a common synonym for the IUPAC standard ethene in all compounds with this functional group.  
methyl ethyl ketone is a synonym for 2-butanone  
o,m,p-cresol are synonyms for 2,3,4-methylphenol, respectively.  
Hexachlorobutadiene is hexachloro-1,3-butadiene



## Report of Laboratory Analysis

Pace Analytical Services, Inc.  
 800 Gessini Avenue  
 Houston, TX 77058  
 Phone: (281) 488-1810  
 Fax: (281) 488-4661

www.pacelabs.com

Client ID: WASH BAY SLUMP SLUDGEClient: SchlumbergerProject: Hobbs/Wash Bay Sump Sludge

Site:

Lab ID: 851824152Project No.: 2022255

Description:

Matrix: Soil%Moisture: Not CorrectedCollected: 10/20/03Received: 10/21/03

| ParameterName         | Method         | Batch | DF | Result   | Qu | Reporting |          | Prep.     | Analysis        | Reg. Limit |
|-----------------------|----------------|-------|----|----------|----|-----------|----------|-----------|-----------------|------------|
|                       |                |       |    |          |    | Units     | Limit    |           |                 |            |
| Ignitability          | SW-846 7.3.3.2 | 31142 | 1  | 0.000000 |    | deg C     | 0.000000 | 27-Oct-03 | 27-Oct-03       | TAE        |
| Ignites by flame      | SW-846 7.3.3.2 | 31142 | 1  | 0.000000 |    | deg C     | 0.000000 | 27-Oct-03 | 27-Oct-03       | TAE        |
| Ignites spontaneously | SW-846 7.3.3.2 | 31142 | 1  | 0.000000 |    | deg C     | 0.000000 | 27-Oct-03 | 27-Oct-03       | TAE        |
| Ignites when agitated | SW-846 7.3.3.2 | 31142 | 1  | 0.000000 |    | deg C     | 0.000000 | 27-Oct-03 | 27-Oct-03       | TAE        |
| Ignites with moisture | SW-846 7.3.3.2 | 31142 | 1  | 0.000000 |    | deg C     | 0.000000 | 27-Oct-03 | 27-Oct-03       | TAE        |
| pH                    | SW 9045        | 30886 | 1  | 7.80     | C3 | S.U.      |          |           | 24-Oct-03 08:00 | LDD        |
| Reactive Cyanide      | SW 7.3.3.2     | 30887 | 1  | ND       | C3 | mg/kg     | 25.0     | 23-Oct-03 | 24-Oct-03 12:27 | TAE        |
| Reactive Sulfide      | SW 7.3.4.2     | 30888 | 1  | ND       | C3 | mg/kg     | 50.0     | 23-Oct-03 | 24-Oct-03 10:00 | TAE        |

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.  
 DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.  
 Reporting Limit is corrected for sample size, dilution and moisture content if applicable.  
 Qu lists qualifiers. Specific qualifiers are defined at the end of the report.  
 For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.  
 (1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.  
 (1b) Flash point less than 140 degrees F is hazardous for ignitability.  
 (1c) Reactive cyanide above 250 ppm is hazardous for reactivity.  
 (1d) Reactive sulfide above 500 ppm is hazardous for reactivity.  
 Ethylene is a common synonym for the IUPAC standard ethene in all compounds with this functional group.  
 methyl ethyl ketone is a synonym for 2-butanone  
 o,m,p-cresol are synonyms for 2,3,4-methylphenol, respectively.  
 Hexachlorobutadiene is hexachloro-1,3-butadiene



Ms. Paula Kirtley (Project Manager)  
Pace Analytical Services, Inc

Houston Laboratory

900 Gemini Avenue  
Houston, TX 77058

Client Site: Houston Laboratory  
Client Ref.: 2022255/Schlumberger

**Pace Analytical Services, Inc.**  
5203 Triangle Lane  
Export, PA 15632  
Phone: 724.733.1161  
Fax: 724.327.7793

Lab Project ID: 03-4451  
Lab Sample ID: 0310-1930  
Client Sample ID: 851824152/Wash Bay  
Sump Sludge  
Sample Matrix: Solid  
  
Date Sampled: 10/20/2003  
Date Received: 10/22/2003

### General Chemistry

| Test                         | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| Total Petroleum Hydrocarbons | 418.1 <sup>(1)</sup> | 55000  | 40              | mg/kg | CK0     | 10/31/2003    | 0025371-1       | <40          |

<sup>(1)</sup> U.S. Environmental Protection Agency, 1983, Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio.

**Sample Comments:** Results reported on an as received basis.

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc.



2022255

FACE ANALYTICAL

CHAIN-OF-CUSTODY RECORD  
Analytical Request

Client: Schlumberger

Address: 2027 West Bender

Holts, NM 88240

Phone #: 505-393-3835

Fax #: 505-393-3835

E-Mail: wbd023@holts.oilfield.slb.com

Report To: Butch Wood

Bill To: same as client address

P.O. & Billing Reference: 1-4506

Project Name / No.: Wash Bay Sump Sludge

Sampled By (Print): Butch Wood

Sampler Signature: [Signature]

Face Client No.:

Face Project Manager:

Profile:

Requested Due Date:

Paula Kirby

15441

| ITEM NO. | SAMPLE DESCRIPTION   | DATE  | TIME | MATRIX | PAGE NO.  | PRESERVATIVES |             |       |      |      |     |        | ANALYSES REQUESTED |               |             |           |     |  |  | Bottle Type | Remarks |  |  |  |  |  |                  |         |
|----------|----------------------|-------|------|--------|-----------|---------------|-------------|-------|------|------|-----|--------|--------------------|---------------|-------------|-----------|-----|--|--|-------------|---------|--|--|--|--|--|------------------|---------|
|          |                      |       |      |        |           | OF CONT       | Unpreserved | H2SO4 | HNO3 | NaOH | HCL | NaHSO4 | TCLP Volatiles     | TCLP Semi-Vol | TCLP Metals | TPH 418.1 | RCI |  |  |             |         |  |  |  |  |  |                  |         |
| 1        | Wash Bay Sump Sludge | 10/20 | 1500 | Sludge | 051024102 | 1             | X           |       |      |      |     |        | X                  |               | X           |           |     |  |  |             |         |  |  |  |  |  | 1-4oz Glass Jar  |         |
| 2        | Wash Bay Sump Sludge |       |      | Sludge | 051024102 | 2             | X           |       |      |      |     |        |                    | X             | X           |           |     |  |  |             |         |  |  |  |  |  | 2-32oz Glass Jar |         |
| 3        | Wash Bay Sump Sludge |       |      | Sludge | 051024102 | 1             | X           |       |      |      |     |        |                    |               |             | X         |     |  |  |             |         |  |  |  |  |  | 1-10oz Glass Jar | 10-1930 |
| 4        | Wash Bay Sump Sludge |       |      | Sludge | 051024102 | 1             | X           |       |      |      |     |        |                    |               |             |           | X   |  |  |             |         |  |  |  |  |  | 1-8oz Glass Jar  |         |
| 5        |                      |       |      |        |           |               |             |       |      |      |     |        |                    |               |             |           |     |  |  |             |         |  |  |  |  |  |                  |         |
| 6        |                      |       |      |        |           |               |             |       |      |      |     |        |                    |               |             |           |     |  |  |             |         |  |  |  |  |  |                  |         |
| 7        |                      |       |      |        |           |               |             |       |      |      |     |        |                    |               |             |           |     |  |  |             |         |  |  |  |  |  |                  |         |
| 8        |                      |       |      |        |           |               |             |       |      |      |     |        |                    |               |             |           |     |  |  |             |         |  |  |  |  |  |                  |         |
| 9        |                      |       |      |        |           |               |             |       |      |      |     |        |                    |               |             |           |     |  |  |             |         |  |  |  |  |  |                  |         |
| 10       |                      |       |      |        |           |               |             |       |      |      |     |        |                    |               |             |           |     |  |  |             |         |  |  |  |  |  |                  |         |
| 11       |                      |       |      |        |           |               |             |       |      |      |     |        |                    |               |             |           |     |  |  |             |         |  |  |  |  |  |                  |         |

ADDITIONAL COMMENTS

Each bottle should contain representative sample  
Call Judy Carley with questions 201.205.7735  
COOLER TEMPERATURE: 2°

| ITEM NUMBER | RELINQUISHED BY | DATE     | TIME | ACCEPTED & ACCEPTED BY / APPL. | DATE     | TIME  |
|-------------|-----------------|----------|------|--------------------------------|----------|-------|
| 1           | [Signature]     | 10/20/00 | 1500 | [Signature]                    | 10/20/00 | 0700  |
|             | [Signature]     | 10/20/00 |      | [Signature]                    | 10/20/00 | 10:30 |

pg 30

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-  
Revised June 10, 1997

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br>Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                            | 4. Generator BJ Services             |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Artesia Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter CRI                   |
| 7. Location of Material (Street Address or ULSTR) 2401 Sivley, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8. State New Mexico                  |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                      |

BRIEF DESCRIPTION OF MATERIAL:

RE: 11-03-03 (renewal of previous C-138)

Wash rack sludge generated from washing dirt and mud off of servicing equipment.

This material has been approved in the past.

Approval for shipments through 11-03-04 Approval Expires 11-03-04 MJK

Estimated Volume approx. 360 bbls per month Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

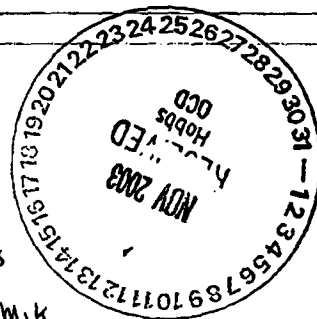
SIGNATURE Kim Flowers TITLE: Rep DATE: 11-03-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

(This space for State Use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 12-22-03



1-502220

CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR BJ Services  
ADDRESS 2401 Sivley Artesia Nm 88210  
GENERATING SITE Artesia Facility  
COUNTY Eddy STATE NM  
TYPE OF WASTE Wash Back Sludge  
ESTIMATED VOLUME 360 BBCs/monthly  
GENERATING PROCESS washing dirt & mud off  
servicing equipment  
REMARKS \_\_\_\_\_  
NMOCD FACILITY CRI  
TRUCKING COMPANY CRT

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Steven Blaine  
SIGNATURE  
NAME Steven Blaine  
PRINTED  
ADDRESS 2401 Sivley  
Artesia Nm 88210  
DATE 12-17-03





## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

Joanna Prukop  
Cabinet Secretary

November 18, 2003

**Lori Wrotenbery**

Director

Oil Conservation Division

Dave Parsons  
CRI  
P.O. Box 388  
Hobbs, NM 88241

**RE: C-138 request 11-03-03**  
**Wash rack sludge**  
**BJ Services, Artesia**

Mr. Parsons,

I called and talked to Kim Flowers with your office on 11-18-03 and asked for the date of the last C-138 approval for this waste stream and the date on the analytical. Kim checked the file and found that the last C-138 approval was for 08-002 approved on 8-27-98. The sump sludge was sampled on 1-14-98. I have found this approval in the OCD files. *Last analytical 02-28-2002*

This analytical is now over 5 years old. Based on the age of the analytical I must deny this request. In addition, the C-138 was submitted without a Certificate of Waste Status attached. Please have BJ Services sample the wash rack sludge and have new analysis run.

To make research easier, please place the CRI tracking number and date on all C-138 request for approvals that refer to a previous approved C-138 so that I may check quickly to verify. *02-12-02*

Under Estimated Volume CRI has listed an approximate ## of bbl per month with out designating a time frame for the haul. Please insert a time frame. These approvals are not to be open ended. *Through 11-3-04*

Please call me if you have further details that will help me make a more informed decision regarding this request (505-476-3488).

Sincerely,

Martyne J. Kielling  
Environmental Geologist

**davidparsons**

---

**From:** sblain@bjservices.com  
**Sent:** Monday, November 03, 2003 9:56 AM  
**To:** david@carihobbs.com  
**Subject:** Analytical Process

David, we have not change our process since our last Analytical.

Thank You

Steven Blain

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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

FEB 20 2002

Environmental Bureau  
Oil Conservation Division

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                 | 4. Generator BJ Services             |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5. Originating Site Artesia Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6. Transporter CRI                   |
| 7. Location of Material (Street Address or ULSTR) 2401 Sivley, Artesia                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8. State New Mexico                  |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                      |

BRIEF DESCRIPTION OF MATERIAL:

02-12-02

Wash rack sludge generated from washing dirt and mud off of servicing equipment

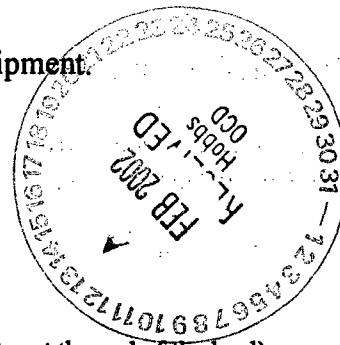
Enclosed is certificate of waste status, analytical data, and chain of custody to approve this waste stream until February 20, 2003.

This material has been approved in the past.

Estimated Volume 360 bbl. per month cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Carmella Van Maanen TITLE: Bookkeeper DATE: 02-12-02  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO: (505) 393-1079



(This space for State Use)

APPROVED BY: [Signature] TITLE: Environmental Eng DATE: 2-13-02  
APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 2-20-02

P.O. Box 388  
Hobbs, NM 88241-0388  
Phone: (505) 393-1079  
Fax: (505) 393-3615

Controlled Recovery, Inc.

# Fax

|        |                              |        |                    |
|--------|------------------------------|--------|--------------------|
| To:    | Martyne                      | From:  | David Parsons      |
| Fax:   | 505-476-3462                 | Date:  | 11-14-03 -11-25-03 |
| Phone: |                              | Pages: | 15                 |
| Re:    | C-138 (Weatherford & Dowell) |        |                    |

☐ Urgent    ☐ For Review    ☐ Please Comment    ☐ Please Reply    ☐ Please Recycle

hp officejet d135  
printer/fax/scanner/copier

Fax-History Report for  
C R I  
5053933615  
Nov 14 2003 10:24am

---

**Last Transaction**

| <u>Date</u> | <u>Time</u> | <u>Type</u> | <u>Identification</u> | <u>Duration</u> | <u>Pages</u> | <u>Result</u> |
|-------------|-------------|-------------|-----------------------|-----------------|--------------|---------------|
| Nov 14      | 10:20am     | Fax Sent    | 15054763462           | 3:58            | 15           | OK            |

---

## District I

1625 N. French Dr., Hobbs, NM 88240

## District II

1301 W. Grand Avenue, Artesia, NM 88210

## District III

1000 Rio Brazos Road, Aztec, NM 87410

## District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural ResourcesOil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505Form C-138  
Revised June 10, 2003Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

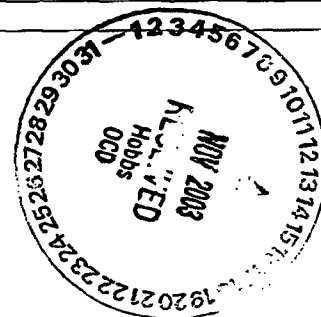
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: X<br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No X                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4. Generator Dowell Schlumberger   |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Hobbs Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter CRI                 |
| 7. Location of Material (Street Address or ULSTR) 1105 w. Bender, Hobbs, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8. State New Mexico                |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                    |

## BRIEF DESCRIPTION OF MATERIAL:

RE: 11-14-03

Sludge -- generated from cleaning out storage tanks.

Enclosed is analytical, non-exempt waste form and chain-of-custody.

*This Approval Expires on 12-2-04. myk*Estimated Volume 1.5 yards/monthly Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cySIGNATURE Kim Flowers  
Waste Management Facility Authorized AgentTITLE: Rep DATE: 11-14-03TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079E-MAIL ADDRESS david@carihobbs.com

1-505-021

(This space for State Use)

|                                     |                                       |                      |
|-------------------------------------|---------------------------------------|----------------------|
| APPROVED BY: _____                  | TITLE: _____                          | DATE: _____          |
| APPROVED BY: <u>Michael J. Hily</u> | TITLE: <u>Environmental Geologist</u> | DATE: <u>12-3-03</u> |

03-11-1997 07:26AM

CONTROLLED RECOVERY INC

P.02

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY/GENERATOR Dowell Schlumberger

ADDRESS 1105 W. Bander

GENERATING SITE Habbs NM Well Services facility

COUNTY Lea STATE NM

TYPE OF WASTE sludge

ESTIMATED VOLUME 1.5 yards

GENERATING PROCESS clean out storage tank

REMARKS \_\_\_\_\_

NMOCF FACILITY

CONTROLLED RECOVERY INC.

TRUCKING COMPANY CR I

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3.

AGENT Darwin Thompson  
SIGNATURE

NAME Darwin Thompson  
PRINTED

ADDRESS PO Box 300

Artesia NM 88210

DATE 11-12-03

TOTAL P.02



PHONE (325) 672-7001 • 2111 BEECHWOOD • ABILENE, TX 79603  
PHONE (505) 383-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO: (505) 748-2133

Receiving Date: 11/05/03  
Reporting Date: 11/07/03  
Project Number: NOT GIVEN  
Project Name: HOBBS TANK SLUDGE  
Project Location: NOT GIVEN

Sampling Date: 11/05/03  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: AH

TCLP METALS

| LAB NO.                     | SAMPLE ID            | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|-----------------------------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ANALYSIS DATE:              |                      | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  |
| EPA LIMITS:                 |                      | 5         | 5         | 100       | 1         | 5         | 5         | 0.2       | 1         |
| H8146-1                     | HOBBS TANK<br>SLUDGE | <1        | <1        | <5        | <0.1      | <1        | <2        | <0.02     | <0.1      |
|                             |                      |           |           |           |           |           |           |           |           |
|                             |                      |           |           |           |           |           |           |           |           |
|                             |                      |           |           |           |           |           |           |           |           |
|                             |                      |           |           |           |           |           |           |           |           |
| Quality Control             |                      | 0.054     | 5.048     | 24.30     | 0.956     | 4.881     | 4.821     | 0.0093    | 0.051     |
| True Value QC               |                      | 0.050     | 5.000     | 25.00     | 1.000     | 5.000     | 5.000     | 0.0100    | 0.050     |
| % Recovery                  |                      | 108       | 101       | 97.2      | 95.6      | 97.6      | 96.4      | 93.0      | 102       |
| Relative Standard Deviation |                      | 2.1       | 0.2       | 4.3       | 0.7       | 0.3       | 7.1       | 7.3       | 2.7       |
| METHODS: EPA 1311, 600/4-91 |                      |           |           |           |           |           |           |           |           |
|                             |                      | 206.2     | 272.1     | 208.1     | 213.1     | 218.1     | 239.1     | 245.1     | 270.2     |

Amy Hill  
Chemist

11/7/03  
Date

**H8146**  
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603  
PHONE (505) 383-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO: (505) 748-2133

Receiving Date: 11/05/03  
Reporting Date: 11/07/03  
Project Number: NOT GIVEN  
Project Name: HOBBS TANK SLUDGE  
Project Location: NOT GIVEN

Sampling Date: 11/05/03  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: AH/BC

| LAB NO.                     | SAMPLE ID  | REACTIVITY       |                  |                     |                      |
|-----------------------------|------------|------------------|------------------|---------------------|----------------------|
|                             |            | Sulfide<br>(ppm) | Cyanide<br>(ppm) | CORROSIVITY<br>(pH) | IGNITABILITY<br>(°F) |
| ANALYSIS DATE:              |            | 11/06/03         | 11/06/03         | 11/05/03            | 11/07/03             |
| H8146-1                     | HOBBS TANK | Not reactive     | Not reactive     | 8.36                | Nonflammable         |
|                             | SLUDGE     |                  |                  |                     |                      |
|                             |            |                  |                  |                     |                      |
|                             |            |                  |                  |                     |                      |
|                             |            |                  |                  |                     |                      |
|                             |            |                  |                  |                     |                      |
| Quality Control             |            | NR               | NR               | 6.98                | NR                   |
| True Value QC               |            | NR               | NR               | 7.00                | NR                   |
| % Recovery                  |            | NR               | NR               | 99.7                | NR                   |
| Relative Percent Difference |            | NR               | NR               | 0                   | NR                   |

METHOD: EPA SW-846 7.3, 7.2, 1030 (proposed), 1311, 40 CFR 261

Burgess for Cole  
Chemist

11/7/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or employees arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

H8146R.XLS



# ARDINAL LABORATORIES

PHONE (325) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO: (505) 748-2133

Receiving Date: 11/05/03  
Reporting Date: 11/07/03  
Project Number: NOT GIVEN  
Project Name: HOBBS TANK SLUDGE  
Project Location: NOT GIVEN  
Lab Number: H8148-1  
Sample ID: HOBBS TANK SLUDGE

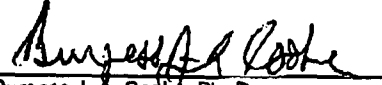
Analysis Date: 11/08/03  
Sampling Date: 11/05/03  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC

| TCLP SEMIVOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H8146-1 | Method<br>Blank | QC    | % Recov. | True Value<br>QC |
|--------------------------|--------------|--------------------------|-----------------|-------|----------|------------------|
| Pyridine                 | 5.00         | <0.020                   | <0.005          | 0.010 | 20       | 0.050            |
| 1,4-Dichlorobenzene      | 7.50         | <0.020                   | <0.005          | 0.035 | 70       | 0.050            |
| o-Cresol                 | 200          | <0.020                   | <0.005          | 0.038 | 76       | 0.050            |
| m, p-Cresol              | 200          | 0.074                    | <0.005          | 0.038 | 76       | 0.050            |
| Hexachloroethane         | 3.00         | <0.020                   | <0.005          | 0.031 | 62       | 0.050            |
| Nitrobenzene             | 2.00         | <0.020                   | <0.005          | 0.045 | 90       | 0.050            |
| Hexachloro-1,3-butadiene | 0.500        | <0.020                   | <0.005          | 0.039 | 78       | 0.050            |
| 2,4,6-Trichlorophenol    | 2.00         | <0.020                   | <0.005          | 0.049 | 98       | 0.050            |
| 2,4,5-Trichlorophenol    | 400          | <0.020                   | <0.005          | 0.049 | 98       | 0.050            |
| 2,4-Dinitrotoluene       | 0.130        | <0.020                   | <0.005          | 0.046 | 92       | 0.050            |
| Hexachlorobenzene        | 0.130        | <0.020                   | <0.005          | 0.047 | 94       | 0.050            |
| Pentachlorophenol        | 100          | <0.020                   | <0.005          | 0.031 | 62       | 0.050            |

## % RECOVERY

|                      |     |
|----------------------|-----|
| Fluorophenol         | 89  |
| Phenol-d5            | 56  |
| Nitrobenzene-d5      | 90  |
| 2-Fluorobiphenyl     | 93  |
| 2,4,6-Tribromophenol | 91  |
| Terphenyl-d14        | 113 |

METHODS: EPA SW-846 1311, 8270, 3510

  
Burgess J. A. Cobble, Ph. D.

11/07/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO: (505) 748-2133

Receiving Date: 11/05/03  
Reporting Date: 11/07/03  
Project Number: NOT GIVEN  
Project Name: HOBBS TANK SLUDGE  
Project Location: NOT GIVEN  
Lab Number: H8146-1  
Sample ID: HOBBS TANK SLUDGE

Analysis Date: 11/06/03  
Sampling Date: 11/05/03  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC

| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H8146-1 | Method<br>Blank | QC    | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|-------|---------|------------------|
| Vinyl Chloride       | 0.20         | <0.005                   | <0.005          | 0.095 | 95      | 0.100            |
| 1,1-Dichloroethylene | 0.7          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| Methyl Ethyl Ketone  | 200          | 0.120                    | <0.050          | 0.083 | 83      | 0.100            |
| Chloroform           | 6.0          | 0.007                    | <0.005          | 0.097 | 97      | 0.100            |
| 1,2-Dichloroethane   | 0.5          | <0.005                   | <0.005          | 0.088 | 88      | 0.100            |
| Benzene              | 0.5          | 0.014                    | <0.005          | 0.100 | 100     | 0.100            |
| Carbon Tetrachloride | 0.5          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| Trichloroethylene    | 0.5          | <0.005                   | <0.005          | 0.101 | 101     | 0.100            |
| Tetrachloroethylene  | 0.7          | <0.005                   | <0.005          | 0.105 | 105     | 0.100            |
| Chlorobenzene        | 100          | <0.005                   | <0.005          | 0.097 | 97      | 0.100            |
| 1,4-Dichlorobenzene  | 7.5          | 0.009                    | 0.006           | 0.095 | 95      | 0.100            |

% RECOVERY

|                      |     |
|----------------------|-----|
| Dibromofluoromethane | 111 |
| Toluene-d8           | 115 |
| Bromofluorobenzene   | 114 |

METHODS: EPA SW 846-8280, 1311

Burgess J.A. Cooke, Ph. D.

11/7/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client. Its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED

NOV 20 2003

OIL CONSERVATION  
DIVISION

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Dowell Schlumberger   |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Hobbs Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter CRI                 |
| 7. Location of Material (Street Address or ULSTR) 1105 w. Bender, Hobbs, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8. State New Mexico                |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                    |

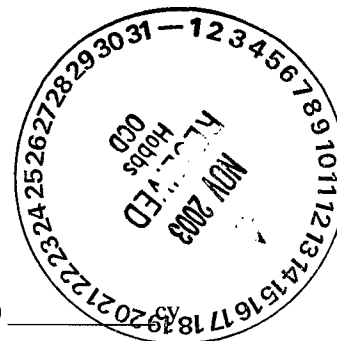
BRIEF DESCRIPTION OF MATERIAL:

RE: 11-14-03

Sludge - generated from cleaning out storage tanks.

Enclosed is analytical, non-exempt waste form and chain-of-custody.

Estimated Volume 1.5 yards/monthly Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_  
*This Expires on 11-23-04 myk*



SIGNATURE Kim Flowers TITLE: Rep DATE: 11-14-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

2-3072-1

(This space for State Use)

|                                 |                                       |                       |
|---------------------------------|---------------------------------------|-----------------------|
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>Enviro Eng</u>              | DATE: <u>11-17-03</u> |
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>Environmental Geologist</u> | DATE: <u>11-24-03</u> |

03-11-1997 07:26AM

CONTROLLED RECOVERY INC

P.02

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY/GENERATOR Donell Schlumberger  
ADDRESS 1105 W. Border  
GENERATING SITE Hobbs NM Well Services facility  
COUNTY Lea STATE NM  
TYPE OF WASTE sludge  
ESTIMATED VOLUME 1.5 yards  
GENERATING PROCESS clean out storage tanks  
REMARKS \_\_\_\_\_  
NMOCD FACILITY CONTROLLED RECOVERY INC.  
TRUCKING COMPANY CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3.

AGENT Darwin Thompson  
SIGNATURE  
NAME Darwin Thompson  
PRINTED  
ADDRESS PO Box 300  
Artesia NM 88210  
DATE 11-12-03



# ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO: (505) 748-2133

Receiving Date: 11/05/03  
Reporting Date: 11/07/03  
Project Number: NOT GIVEN  
Project Name: HOBBS TANK SLUDGE  
Project Location: NOT GIVEN

Sampling Date: 11/05/03  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: AH

## TCLP METALS

| LAB NO.                      | SAMPLE ID            | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|------------------------------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ANALYSIS DATE:               |                      | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  |
| EPA LIMITS:                  |                      | 5         | 5         | 100       | 1         | 5         | 5         | 0.2       | 1         |
| H8146-1                      | HOBBS TANK<br>SLUDGE | <1        | <1        | <5        | <0.1      | <1        | <2        | <0.02     | <0.1      |
|                              |                      |           |           |           |           |           |           |           |           |
|                              |                      |           |           |           |           |           |           |           |           |
|                              |                      |           |           |           |           |           |           |           |           |
|                              |                      |           |           |           |           |           |           |           |           |
| Quality Control              |                      | 0.054     | 5.048     | 24.30     | 0.956     | 4.881     | 4.821     | 0.0093    | 0.051     |
| True Value QC                |                      | 0.050     | 5.000     | 25.00     | 1.000     | 5.000     | 5.000     | 0.0100    | 0.050     |
| % Recovery                   |                      | 108       | 101       | 97.2      | 95.6      | 97.6      | 96.4      | 93.0      | 102       |
| Relative Standard Deviation  |                      | 2.1       | 0.2       | 4.3       | 0.7       | 0.3       | 7.1       | 7.3       | 2.7       |
| METHODS: EPA 1311, 600/4-91, |                      | 206.2     | 272.1     | 208.1     | 213.1     | 218.1     | 239.1     | 245.1     | 270.2     |

Amy Hill  
Chemist

11/7/03  
Date

H8146  
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



# ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO: (505) 748-2133

Receiving Date: 11/05/03  
Reporting Date: 11/07/03  
Project Number: NOT GIVEN  
Project Name: HOBBS TANK SLUDGE  
Project Location: NOT GIVEN

Sampling Date: 11/05/03  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: AH/BC

| LAB NO.                     | SAMPLE ID  | REACTIVITY       |                  |                     |                      |
|-----------------------------|------------|------------------|------------------|---------------------|----------------------|
|                             |            | Sulfide<br>(ppm) | Cyanide<br>(ppm) | CORROSIVITY<br>(pH) | IGNITABILITY<br>(°F) |
| ANALYSIS DATE:              |            | 11/06/03         | 11/06/03         | 11/05/03            | 11/07/03             |
| H8146-1                     | HOBBS TANK | Not reactive     | Not reactive     | 8.36                | Nonflammable         |
|                             | SLUDGE     |                  |                  |                     |                      |
|                             |            |                  |                  |                     |                      |
|                             |            |                  |                  |                     |                      |
|                             |            |                  |                  |                     |                      |
|                             |            |                  |                  |                     |                      |
| Quality Control             |            | NR               | NR               | 6.98                | NR                   |
| True Value QC               |            | NR               | NR               | 7.00                | NR                   |
| % Recovery                  |            | NR               | NR               | 99.7                | NR                   |
| Relative Percent Difference |            | NR               | NR               | 0                   | NR                   |

METHOD: EPA SW-846 7.3, 7.2, 1030 (proposed), 1311, 40 CFR 261

*Burgess for Corle*  
Chemist

11/7/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or employees arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

H8146R.XLS





PHONE (325) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO: (505) 748-2133

Receiving Date: 11/05/03  
Reporting Date: 11/07/03  
Project Number: NOT GIVEN  
Project Name: HOBBS TANK SLUDGE  
Project Location: NOT GIVEN  
Lab Number: H8146-1  
Sample ID: HOBBS TANK SLUDGE

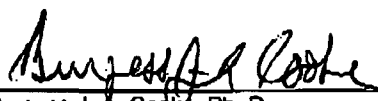
Analysis Date: 11/06/03  
Sampling Date: 11/05/03  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC

| TCLP SEMIVOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H8146-1 | Method<br>Blank | QC    | % Recov. | True Value<br>QC |
|--------------------------|--------------|--------------------------|-----------------|-------|----------|------------------|
| Pyridine                 | 5.00         | <0.020                   | <0.005          | 0.010 | 20       | 0.050            |
| 1,4-Dichlorobenzene      | 7.50         | <0.020                   | <0.005          | 0.035 | 70       | 0.050            |
| o-Cresol                 | 200          | <0.020                   | <0.005          | 0.038 | 76       | 0.050            |
| m, p-Cresol              | 200          | 0.074                    | <0.005          | 0.038 | 78       | 0.050            |
| Hexachloroethane         | 3.00         | <0.020                   | <0.005          | 0.031 | 62       | 0.050            |
| Nitrobenzene             | 2.00         | <0.020                   | <0.005          | 0.045 | 90       | 0.050            |
| Hexachloro-1,3-butadiene | 0.500        | <0.020                   | <0.005          | 0.039 | 78       | 0.050            |
| 2,4,6-Trichlorophenol    | 2.00         | <0.020                   | <0.005          | 0.049 | 98       | 0.050            |
| 2,4,5-Trichlorophenol    | 400          | <0.020                   | <0.005          | 0.049 | 98       | 0.050            |
| 2,4-Dinitrotoluene       | 0.130        | <0.020                   | <0.005          | 0.046 | 92       | 0.050            |
| Hexachlorobenzene        | 0.130        | <0.020                   | <0.005          | 0.047 | 94       | 0.050            |
| Pentachlorophenol        | 100          | <0.020                   | <0.005          | 0.031 | 62       | 0.050            |

## % RECOVERY

|                      |     |
|----------------------|-----|
| Fluorophenol         | 89  |
| Phenol-d5            | 56  |
| Nitrobenzene-d5      | 90  |
| 2-Fluorobiphenyl     | 93  |
| 2,4,6-Tribromophenol | 91  |
| Terphenyl-d14        | 113 |

METHODS: EPA SW-846 1311, 8270, 3510

  
Burgess J. A. Cooke, Ph. D.

11/07/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



# **ARDINAL LABORATORIES**

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO: (505) 748-2133

Receiving Date: 11/05/03  
Reporting Date: 11/07/03  
Project Number: NOT GIVEN  
Project Name: HOBBS TANK SLUDGE  
Project Location: NOT GIVEN  
Lab Number: H8146-1  
Sample ID: HOBBS TANK SLUDGE

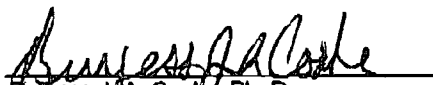
Analysis Date: 11/06/03  
Sampling Date: 11/05/03  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC

| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H8146-1 | Method<br>Blank | QC    | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|-------|---------|------------------|
| Vinyl Chloride       | 0.20         | <0.005                   | <0.005          | 0.095 | 95      | 0.100            |
| 1,1-Dichloroethylene | 0.7          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| Methyl Ethyl Ketone  | 200          | 0.120                    | <0.050          | 0.083 | 83      | 0.100            |
| Chloroform           | 6.0          | 0.007                    | <0.005          | 0.097 | 97      | 0.100            |
| 1,2-Dichloroethane   | 0.5          | <0.005                   | <0.005          | 0.088 | 88      | 0.100            |
| Benzene              | 0.5          | 0.014                    | <0.005          | 0.100 | 100     | 0.100            |
| Carbon Tetrachloride | 0.5          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| Trichloroethylene    | 0.5          | <0.005                   | <0.005          | 0.101 | 101     | 0.100            |
| Tetrachloroethylene  | 0.7          | <0.005                   | <0.005          | 0.105 | 105     | 0.100            |
| Chlorobenzene        | 100          | <0.005                   | <0.005          | 0.097 | 97      | 0.100            |
| 1,4-Dichlorobenzene  | 7.5          | 0.009                    | 0.006           | 0.095 | 95      | 0.100            |

## **% RECOVERY**

|                      |     |
|----------------------|-----|
| Dibromofluoromethane | 111 |
| Toluene-d8           | 115 |
| Bromofluorobenzene   | 114 |

METHODS: EPA SW 846-8260, 1311

  
Burgess J.A. Cooke, Ph. D.

11/7/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

11/12/2003 15:12



**CARDINAL LABORATORIES, INC.**  
1111 Eastwood Avenue, St. Louis, MO 63114

2111 Electrowood, Abilene, TX 79603 101 East Highland, Mobile, AL 36620

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

9

[illegible]

P.O. Box 388  
Hobbs, NM 88241-0388  
Phone: (505) 393-1079  
Fax: (505) 393-3615

Controlled Recovery, Inc.

# Fax

|                                                                                                                                                                                           |                              |        |                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------|--------------------|
| To:                                                                                                                                                                                       | Martyne                      | From:  | David Parsons      |
| Fax:                                                                                                                                                                                      | 505-476-3462                 | Date:  | 11-14-03 -11-25-03 |
| Phone:                                                                                                                                                                                    |                              | Pages: | 15                 |
| Re:                                                                                                                                                                                       | C-138 (Weatherford & Dowell) |        |                    |
| <input type="checkbox"/> Urgent <input type="checkbox"/> For Review <input type="checkbox"/> Please Comment <input type="checkbox"/> Please Reply <input type="checkbox"/> Please Recycle |                              |        |                    |

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                          | 4. Generator Weatherford           |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5. Originating Site Hobbs Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6. Transporter CRI                 |
| 7. Location of Material (Street Address or ULSTR) 3000 W County Rd, Hobbs, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8. State New Mexico                |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                    |

#### BRIEF DESCRIPTION OF MATERIAL:

RE: 11-13-03 (re-newel of C-138)

Sump Water – generated from steaming off oilfield tools and equipment

Enclosed is analytical, non-exempt waste form and chain-of-custody.

*This Approval Expires on 12-2-04 mjt*

Estimated Volume 100 bbls/monthly Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE

*Kim Flowers*  
Waste Management Facility Authorized Agent

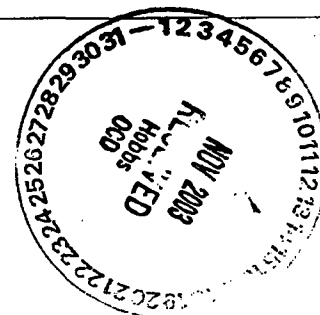
TITLE: Rep

DATE: 11-13-03

TYPE OR PRINT NAME: Kim Flowers

TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com



(This space for State Use)

APPROVED BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

APPROVED BY: *Martyn J. H.*

TITLE: *Environmental Geologist*

DATE: *12-3-03*

2-503021

CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Weatherford

ADDRESS 3000 West County Road

GENERATING SITE 3000 West County Road

COUNTY Lea STATE NM

TYPE OF WASTE Sump water

ESTIMATED VOLUME 100 bbls

GENERATING PROCESS streaming off o.i. field tools & equipment

REMARKS \_\_\_\_\_

NMOCDC FACILITY C.R.I.

TRUCKING COMPANY C.R.I.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Duane Bryant  
SIGNATURE

NAME Duane Bryant  
PRINTED

ADDRESS Weatherford

3000 W. County Rd. Hobbs NM 88240

DATE 11-12-03



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONTROLLED RECOVERY, INC.

ATTN: DAVID PARSONS

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 11/04/03

Reporting Date: 11/07/03

Project Owner: WEATHERFORD

Project Name: WASHBAY SUMP SLUDGE

Project Location: 3000 W. COUNTY ROAD

Sampling Date: 11/04/03

Sample Type: SLUDGE

Sample Condition: COOL &amp; INTACT

Sample Received By: AH

Analyzed By: AH

## TCLP METALS

| LAB NO.                     | SAMPLE ID | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ANALYSIS DATE:              |           | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  | 11/07/03  |
| EPA LIMITS:                 |           | 5         | 5         | 100       | 1         | 5         | 5         | 0.2       | 1         |
| H8139-1                     | 1         | <1        | <1        | <5        | <0.1      | <1        | <2        | <0.02     | <0.1      |
|                             |           |           |           |           |           |           |           |           |           |
|                             |           |           |           |           |           |           |           |           |           |
|                             |           |           |           |           |           |           |           |           |           |
| Quality Control             |           | 0.054     | 5.048     | 24.30     | 0.956     | 4.881     | 4.821     | 0.0093    | 0.051     |
| True Value QC               |           | 0.050     | 5.000     | 25.00     | 1.000     | 5.000     | 5.000     | 0.0100    | 0.050     |
| % Recovery                  |           | 108       | 101       | 97.2      | 95.6      | 97.6      | 96.4      | 93.0      | 102       |
| Relative Standard Deviation |           | 2.1       | 0.2       | 4.3       | 0.7       | 0.3       | 7.1       | 7.3       | 2.7       |
| METHODS: EPA 1311, 600/4-91 |           | 206.2     | 272.1     | 208.1     | 213.1     | 218.1     | 239.1     | 245.1     | 270.2     |

Amy Hill  
Chemist

11/7/03  
Date

H8139  
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

**ARDINAL  
LABORATORIES**

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**ANALYTICAL RESULTS FOR  
CONTROLLED RECOVERY, INC.**

ATTN: DAVID PARSONS

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 11/04/03

Reporting Date: 11/07/03

Project Owner: WEATHERFORD

Project Name: WASHBAY SUMP SLUDGE

Project Location: 3000 W. COUNTY RD.

Sampling Date: 11/04/03

Sample Type: SLUDGE

Sample Condition: COOL &amp; INTACT

Sample Received By: AH

Analyzed By: AH/BC

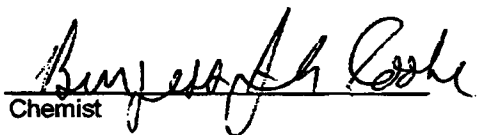
**REACTIVITY**

LAB NO. SAMPLE ID

Sulfide  
(ppm)Cyanide  
(ppm)CORROSIVITY  
(pH)IGNITABILITY  
(°F)

|                             |              |              |          |          |
|-----------------------------|--------------|--------------|----------|----------|
| ANALYSIS DATE:              | 11/06/03     | 11/06/03     | 11/04/03 | 11/07/03 |
| H8139-1 1                   | Not reactive | Not reactive | 7.14     | >140     |
|                             |              |              |          |          |
|                             |              |              |          |          |
|                             |              |              |          |          |
|                             |              |              |          |          |
|                             |              |              |          |          |
| Quality Control             | NR           | NR           | 6.98     | NR       |
| True Value QC               | NR           | NR           | 7.00     | NR       |
| % Recovery                  | NR           | NR           | 99.7     | NR       |
| Relative Percent Difference | NR           | NR           | 0        | NR       |

METHOD: EPA SW-846 7.3, 7.2, 1010, 1311, 40 CFR 261

  
Chemist

11/7/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

H8139R.XLS





# ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

## ANALYTICAL RESULTS FOR CONTROLLED RECOVERY, INC.

ATTN: DAVID PARSONS

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 11/04/03

Reporting Date: 11/07/03

Project Owner: WEATHERFORD

Project Name: WASHBAY SUMP SLUDGE

Project Location: 3000 W. COUNTY RD.

Lab Number: H8139-1

Sample ID: 1

Analysis Date: 11/06/03

Sampling Date: 11/04/03

Sample Type: SLUDGE

Sample Condition: COOL &amp; INTACT

Sample Received By: AH

Analyzed By: BC

| TCLP SEMIVOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H8139-1 | Method<br>Blank | QC    | % Recov. | True Value<br>QC |
|--------------------------|--------------|--------------------------|-----------------|-------|----------|------------------|
| Pyridine                 | 5.00         | <0.020                   | <0.005          | 0.010 | 20       | 0.050            |
| 1,4-Dichlorobenzene      | 7.50         | <0.020                   | <0.005          | 0.035 | 70       | 0.050            |
| o-Cresol                 | 200          | <0.020                   | <0.005          | 0.038 | 76       | 0.050            |
| m, p-Cresol              | 200          | <0.020                   | <0.005          | 0.038 | 76       | 0.050            |
| Hexachloroethane         | 3.00         | <0.020                   | <0.005          | 0.031 | 62       | 0.050            |
| Nitrobenzene             | 2.00         | <0.020                   | <0.005          | 0.045 | 90       | 0.050            |
| Hexachloro-1,3-butadiene | 0.500        | <0.020                   | <0.005          | 0.039 | 78       | 0.050            |
| 2,4,6-Trichlorophenol    | 2.00         | <0.020                   | <0.005          | 0.049 | 98       | 0.050            |
| 2,4,5-Trichlorophenol    | 400          | <0.020                   | <0.005          | 0.049 | 98       | 0.050            |
| 2,4-Dinitrotoluene       | 0.130        | <0.020                   | <0.005          | 0.046 | 92       | 0.050            |
| Hexachlorobenzene        | 0.130        | <0.020                   | <0.005          | 0.047 | 94       | 0.050            |
| Pentachlorophenol        | 100          | <0.020                   | <0.005          | 0.031 | 62       | 0.050            |

### % RECOVERY

|                      |     |
|----------------------|-----|
| Fluorophenol         | 58  |
| Phenol-d5            | 36  |
| Nitrobenzene-d5      | 68  |
| 2-Fluorobiphenyl     | 66  |
| 2,4,6-Tribromophenol | 108 |
| Terphenyl-d14        | 96  |

METHODS: EPA SW-846 1311, 8270, 3510

*Burgess J. A. Cooke*  
Burgess J. A. Cooke, Ph. D.

11/17/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



# ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONTROLLED RECOVERY, INC.  
ATTN: DAVID PARSONS  
P.O. BOX 388  
HOBBS, NM 88241  
FAX TO: (505) 393-3615

Receiving Date: 11/04/03  
Reporting Date: 11/07/03  
Project Owner: WEATHERFORD  
Project Name: WASHBAY SUMP SLUDGE  
Project Location: 3000 W. COUNTY RD.  
Lab Number: H8139-1  
Sample ID: 1

Analysis Date: 11/05/03  
Sampling Date: 11/04/03  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H8139-1 | Method<br>Blank | QC    | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|-------|---------|------------------|
| Vinyl Chloride       | 0.20         | <0.005                   | <0.005          | 0.095 | 95      | 0.100            |
| 1,1-Dichloroethylene | 0.7          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| Methyl Ethyl Ketone  | 200          | 0.127                    | <0.050          | 0.083 | 83      | 0.100            |
| Chloroform           | 6.0          | 0.016                    | <0.005          | 0.097 | 97      | 0.100            |
| 1,2-Dichloroethane   | 0.5          | <0.005                   | <0.005          | 0.088 | 88      | 0.100            |
| Benzene              | 0.5          | 0.009                    | <0.005          | 0.100 | 100     | 0.100            |
| Carbon Tetrachloride | 0.5          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| Trichloroethylene    | 0.5          | <0.005                   | <0.005          | 0.101 | 101     | 0.100            |
| Tetrachloroethylene  | 0.7          | <0.005                   | <0.005          | 0.105 | 105     | 0.100            |
| Chlorobenzene        | 100          | <0.005                   | <0.005          | 0.097 | 97      | 0.100            |
| 1,4-Dichlorobenzene  | 7.5          | 0.011                    | 0.007           | 0.095 | 95      | 0.100            |

## % RECOVERY

|                      |     |
|----------------------|-----|
| Dibromofluoromethane | 95  |
| Toluene-d8           | 104 |
| Bromofluorobenzene   | 103 |

METHODS: EPA SW 846-8260, 1311

*Burgess J. Cooke*  
Burgess J. Cooke, Ph. D.

*11/7/03*  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



# CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 383-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

### ANALYSIS REQUEST

Company Name: Wash Bay Sludge

Project Manager: Dwaine Bryant

Address: 3000 W County Rd

City: Abilene State/Zip: 88240

Phone #: 505-392-2626

Fax #:

Project #:

Project Owner:

Project Name: Wash Bay Sludge

Project Location:

FOR LAB USE ONLY

LAB I.D. Sample I.D.

LAB I.D. 839-1

Sample I.D. 1

(G)RAB OR (C)OMP. C

# CONTAINERS 1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE V

OTHER:

ACID:

ICE / COOL V

OTHER:

DATE 11/4/03

TIME 11:00am

MATRIX

PRES.

SAMPLING

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's acceptance is limited to the amount paid by the client for the analysis. All claims including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal. Regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Sampler Relinquished: D. Bryant

Relinquished By:

Time: 11:00am

Date: 11/4/03

Received By: (Lab Staff) Tracy Hill

Delivered By: (Circle One)

Sample Condition

Checked By:

Sample - UPS - Bus - Other:

Phone Result ☐ Yes ☐ No Additional Fax #:

REMARKS:

Fax Result: ☐ Yes ☐ No

Terms and Conditions: Invoices will be charged on all accounts more than 30 days past due at the rate of 2% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

Analysis Request

TCLP metals ✓

TCLP volatiles ✓

TCLP semi-volatiles ✓

RCI ✓

\*\*\*\*\*  
\* P. 01 \*  
\* TRANSACTION REPORT \*  
\* NOV-25-2003 TUE 02:59 PM \*  
\* FOR: \*  
\* RECEIVE \*  
\* DATE START SENDER RX TIME PAGES TYPE NOTE M# DP \*  
\* NOV-25 02:56 PM 5053933615 2' 12" 8 RECEIVE OK \*  
\*\*\*\*\*

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

RECEIVED State of New Mexico  
Energy Minerals and Natural Resources  
NOV 17 2003 Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505  
OIL CONSERVATION  
DIVISION

Form C-138  
Revised June 10, 2003  
Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Navajo Refining         |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Artesia Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter D & J                 |
| 7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8. State New Mexico                  |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                      |

BRIEF DESCRIPTION OF MATERIAL:

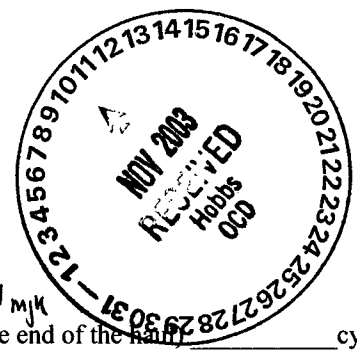
RE: 11-10-03CD

FCC Cat Fines – used in air drying in FCC unit.

Enclosed is analytical dated 06-23-03 and non-exempt waste form.

This Approval is good for one year or until 11/16/04 mjk

Estimated Volume 3000 yards/year Known Volume (to be entered by the operator at the end of the year) \_\_\_\_\_ cy



SIGNATURE Kim Flowers TITLE: Rep DATE: 11-10-03  
Waste Management Facility Authorized Agent  
TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079  
E-MAIL ADDRESS david@carihobbs.com

111703-1

(This space for State Use) Paul Beatty  
APPROVED BY: ENVIRONMENTAL ENGINEER TITLE: \_\_\_\_\_ DATE: 11-12-03  
APPROVED BY: Martyn G. Kelly TITLE: Environmental Geologist DATE: 11/17/03

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: FCC Cat Fines

ESTIMATED VOLUME: 3000 yards/ Year

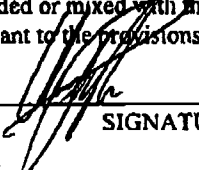
GENERATING PROCESS: Clay catalyst used in air drying in our FCC UNIT

REMARKS: This material has been approved in the past

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: D&J Waste Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT:   
SIGNATURE

NAME: Charlie Plymale  
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 11/6/03



## REFINING COMPANY

FAX

(505) 746-5283 DIV. ORDERS  
(505) 746-5481 TRUCKING  
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159  
TELEPHONE (505) 748-3311

FAX

(505) 746-5419 ACCOUNTING  
(505) 746-5451 EXEC/MKTG  
(505) 746-5421 ENGINEERING  
(505) 746-5480 PIPELINE

November 4, 2003

Ken Marsh  
CRI  
P.O. Box 388  
Hobbs, NM 88214

Ken,

I would like to profile by process knowledge: (1) Asphalt sample cans that are RCRA clean. (2) Cooling tower sludge- which is blow sand and dirt that the wind blows into our cooling towers throughout the year at both the Artesia and Lovington Refineries. (3) Pipeline filters that the diesel that is ship from the refinery. (4) FCC cat fines that is a clay media used for air drying in our FCC Unit. All these materials have been approved in the passed and the process has not changed with any of these materials.

I would also like to renew our profile for our Chloride Guard catalysts. I have included the analytical for the Chloride Guard catalyst and analytical for the FCC cat fines.

If you have any question please feel free to call me at (505) 746-5241 or (505) 365-4298.

Sincerely,

Charlie Plymale  
Sr. Environmental Specialist

## Summary Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: June 23, 2003

Work Order: 3060405

Project Location: Artesia  
Project Name: Misc. TCLP

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 8863   | DAF         | Sludge | 2003-06-03 | 11:00      | 2003-06-04    |

### Sample: 8863 - DAF

| Param                                | Flag | Result        | Units | RL      |
|--------------------------------------|------|---------------|-------|---------|
| Reactivity                           |      | non-reactive  |       | 0.00    |
| Hydrogen Sulfide                     |      | <10.0         | mg/Kg | 10.0    |
| Hydrogen Cyanide                     |      | <2.50         | mg/Kg | 2.50    |
| Corrosivity                          |      | non-corrosive | mm/yr | 0.00    |
| pH                                   |      | 7.10          | s.u.  | 0.00    |
| Ignitability                         |      | non-ignitable |       | 0.00    |
| TCLP Silver                          |      | <0.125        | mg/L  | 0.125   |
| Pyridine                             |      | <0.0500       | mg/L  | 10.0    |
| 1,4-Dichlorobenzene (para)           |      | <0.0500       | mg/L  | 10.0    |
| o-Cresol                             |      | <0.0500       | mg/L  | 10.0    |
| m,p-Cresol                           |      | 0.593         | mg/L  | 10.0    |
| Hexachloroethane                     |      | <0.0500       | mg/L  | 10.0    |
| Nitrobenzene                         |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobutadiene                  |      | <0.0500       | mg/L  | 10.0    |
| 2,4,6-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dinitrotoluene                   |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobenzene                    |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500       | mg/L  | 10.0    |
| Pentachlorophenol                    |      | <0.0500       | mg/L  | 10.0    |
| TCLP Arsenic                         |      | <0.100        | mg/L  | 0.100   |
| TCLP Barium                          |      | 0.519         | mg/L  | 0.100   |
| TCLP Cadmium                         |      | <0.0500       | mg/L  | 0.0500  |
| TCLP Chromium                        |      | <0.100        | mg/L  | 0.100   |
| TCLP Mercury                         |      | <0.0100       | mg/L  | 0.0100  |
| TCLP Lead                            |      | 0.205         | mg/L  | 0.0370  |
| TCLP Selenium                        |      | <0.500        | mg/L  | 0.500   |
| Vinyl Chloride                       |      | <0.0500       | mg/L  | 0.00100 |
| 1,1-Dichloroethene                   |      | <0.0500       | mg/L  | 0.00100 |
| 2-Butanone (MEK)                     |      | <0.500        | mg/L  | 0.0100  |
| Chloroform                           |      | <0.0500       | mg/L  | 0.00100 |

continued ...



*sample 8863 continued ...*

| Param                      | Flag | Result  | Units | RL      |
|----------------------------|------|---------|-------|---------|
| 1,2-Dichloroethane (EDC)   |      | <0.0500 | mg/L  | 0.00100 |
| Benzene                    |      | <0.0500 | mg/L  | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500 | mg/L  | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500 | mg/L  | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500 | mg/L  | 0.00100 |
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.00100 |

## Summary Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: June 23, 2003

Work Order: 3060405

Project Location: Artesia  
Project Name: Misc. TCLP

| Sample | Description   | Matrix | Date Taken | Time Taken | Date Received |
|--------|---------------|--------|------------|------------|---------------|
| 8864   | FCC Prier Med | Solid  | 2003-06-03 | 15:30      | 2003-06-04    |

### Sample: 8864 - FCC Prier Med

| Param                                | Flag | Result        | Units | RL      |
|--------------------------------------|------|---------------|-------|---------|
| Reactivity                           |      | non-reactive  |       | 0.00    |
| Hydrogen Sulfide                     |      | <10.0         | mg/Kg | 10.0    |
| Hydrogen Cyanide                     |      | <2.50         | mg/Kg | 2.50    |
| Corrosivity                          |      | non-corrosive | mm/yr | 0.00    |
| pH                                   |      | 8.80          | s.u.  | 0.00    |
| Ignitability                         |      | non-ignitable |       | 0.00    |
| TCLP Silver                          |      | <0.125        | mg/L  | 0.125   |
| Pyridine                             |      | <0.0500       | mg/L  | 10.0    |
| 1,4-Dichlorobenzene (para)           |      | <0.0500       | mg/L  | 10.0    |
| o-Cresol                             |      | <0.0500       | mg/L  | 10.0    |
| m,p-Cresol                           |      | <0.0500       | mg/L  | 10.0    |
| Hexachloroethane                     |      | <0.0500       | mg/L  | 10.0    |
| Nitrobenzene                         |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobutadiene                  |      | <0.0500       | mg/L  | 10.0    |
| 2,4,6-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dinitrotoluene                   |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobenzene                    |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500       | mg/L  | 10.0    |
| Pentachlorophenol                    |      | <0.0500       | mg/L  | 10.0    |
| TCLP Arsenic                         |      | <0.100        | mg/L  | 0.100   |
| TCLP Barium                          |      | 2.03          | mg/L  | 0.100   |
| TCLP Cadmium                         |      | <0.0500       | mg/L  | 0.0500  |
| TCLP Chromium                        |      | <0.100        | mg/L  | 0.100   |
| TCLP Mercury                         |      | <0.0100       | mg/L  | 0.0100  |
| TCLP Lead                            |      | <0.0370       | mg/L  | 0.0370  |
| TCLP Selenium                        |      | <0.500        | mg/L  | 0.500   |
| Vinyl Chloride                       |      | <0.0500       | mg/L  | 0.00100 |
| 1,1-Dichloroethene                   |      | <0.0500       | mg/L  | 0.00100 |
| 2-Butanone (MEK)                     |      | <0.500        | mg/L  | 0.0100  |
| Chloroform                           |      | <0.0500       | mg/L  | 0.00100 |

*continued ...*

*sample 8864 continued ...*

| Param                      | Flag | Result  | Units | RL      |
|----------------------------|------|---------|-------|---------|
| 1,2-Dichloroethane (EDC)   |      | <0.0500 | mg/L  | 0.00100 |
| Benzene                    |      | <0.0500 | mg/L  | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500 | mg/L  | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500 | mg/L  | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500 | mg/L  | 0.00100 |
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.00100 |

# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
155 McCutcheon, Suite H

Lubbock, Texas 79424 800•378•1296  
El Paso, Texas 79932 888•588•3443  
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298  
915•585•3443 FAX 915•585•4944

## Analytical and Quality Control Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: June 23, 2003

Work Order: 3060405

Project Location: Artesia  
Project Name: Misc. TCLP  
Project Number: Misc. TCLP

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date<br>Taken | Time<br>Taken | Date<br>Received |
|--------|-------------|--------|---------------|---------------|------------------|
| 8863   | DAF         | Sludge | 2003-06-03    | 11:00         | 2003-06-04       |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

  
\_\_\_\_\_  
Dr. Blair Leftwich, Director

## Analytical Report

### Sample: 8863 - DAF

|             |      |                    |                        |              |     |
|-------------|------|--------------------|------------------------|--------------|-----|
| Analysis:   | RCI  | Analytical Method: | ASTM D 5049-90/4978-95 | Prep Method: | N/A |
| QC Batch:   | 2106 | Date Analyzed:     | 2003-06-09             | Analyzed By: | JH  |
| Prep Batch: | 1892 | Date Prepared:     | 2003-06-09             | Prepared By: | JH  |
| Analysis:   | RCI  | Analytical Method: | S 1110                 | Prep Method: | N/A |
| Analysis:   | RCI  | Analytical Method: | SW-846 Ch. 7.1         | Prep Method: | N/A |

| Parameter        | Flag | RL<br>Result  | Units | Dilution | RL   |
|------------------|------|---------------|-------|----------|------|
| Reactivity       |      | non-reactive  |       | 1        | 0.00 |
| Hydrogen Sulfide |      | <10.0         | mg/Kg | 1        | 10.0 |
| Hydrogen Cyanide |      | <2.50         | mg/Kg | 1        | 2.50 |
| Corrosivity      |      | non-corrosive | mm/yr | 1        | 0.00 |
| pH               |      | 7.10          | s.u.  | 1        | 0.00 |
| Ignitability     |      | non-ignitable |       | 1        | 0.00 |

### Sample: 8863 - DAF

|             |         |                    |            |              |           |
|-------------|---------|--------------------|------------|--------------|-----------|
| Analysis:   | TCLP Ag | Analytical Method: | S 6010B    | Prep Method: | TCLP 1311 |
| QC Batch:   | 2373    | Date Analyzed:     | 2003-06-05 | Analyzed By: | RR        |
| Prep Batch: | 1833    | Date Prepared:     | 2003-06-04 | Prepared By: | TP        |

| Parameter   | Flag | RL<br>Result | Units | Dilution | RL    |
|-------------|------|--------------|-------|----------|-------|
| TCLP Silver |      | <0.125       | mg/L  | 1        | 0.125 |

### Sample: 8863 - DAF

|             |                    |                    |            |              |           |
|-------------|--------------------|--------------------|------------|--------------|-----------|
| Analysis:   | TCLP Semivolatiles | Analytical Method: | S 8270C    | Prep Method: | TCLP 1311 |
| QC Batch:   | 2133               | Date Analyzed:     | 2003-06-09 | Analyzed By: | RC        |
| Prep Batch: | 1805               | Date Prepared:     | 2003-06-04 | Prepared By: | JH        |

| Parameter                            | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------------------------------|------|--------------|-------|----------|------|
| Pyridine                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| o-Cresol                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| m,p-Cresol                           |      | 0.593        | mg/L  | 0.005    | 10.0 |
| Hexachloroethane                     |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Nitrobenzene                         |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobutadiene                  |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,6-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dinitrotoluene                   |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobenzene                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Pentachlorophenol                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |

| Surrogate            | Flag | Result  | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|---------|-------|----------|--------------|------------------|-----------------|
| 2-Fluorophenol       |      | 0.138   | mg/L  | 0.005    | 60.0         | 46               | 2.83 - 110.33   |
| Phenol-d5            |      | 0.103   | mg/L  | 0.005    | 60.0         | 34               | 0 - 82.08       |
| Nitrobenzene-d5      |      | 0.288   | mg/L  | 0.005    | 60.0         | 96               | 26.72 - 155     |
| 2-Fluorobiphenyl     |      | 0.267   | mg/L  | 0.005    | 60.0         | 89               | 35.89 - 150.5   |
| 2,4,6-Tribromophenol |      | 0.00170 | mg/L  | 0.005    | 60.0         | 0                | 0 - 204.91      |
| Terphenyl-d14        |      | 0.282   | mg/L  | 0.005    | 60.0         | 94               | 33.98 - 168.85  |

**Sample: 8863 - DAF**

Analysis: TCLP Total 8 Metals  
QC Batch: 2065  
Prep Batch: 1867  
Analysis: TCLP Total 8 Metals  
QC Batch: 2373  
Prep Batch: 1833

Analytical Method: S 7470A  
Date Analyzed: 2003-06-06  
Date Prepared: 2003-06-05  
Analytical Method: S 6010B  
Date Analyzed: 2003-06-05  
Date Prepared: 2003-06-04

Prep Method: TCLP 1311  
Analyzed By: BC  
Prepared By: BC  
Prep Method: TCLP 1311  
Analyzed By: RR  
Prepared By: TP

| Parameter     | Flag | RL Result | Units | Dilution | RL     |
|---------------|------|-----------|-------|----------|--------|
| TCLP Arsenic  |      | <0.100    | mg/L  | 1        | 0.100  |
| TCLP Barium   |      | 0.519     | mg/L  | 1        | 0.100  |
| TCLP Cadmium  |      | <0.0500   | mg/L  | 1        | 0.0500 |
| TCLP Chromium |      | <0.100    | mg/L  | 1        | 0.100  |
| TCLP Mercury  |      | <0.0100   | mg/L  | 1        | 0.0100 |
| TCLP Lead     |      | 0.205     | mg/L  | 1        | 0.0370 |
| TCLP Selenium |      | <0.500    | mg/L  | 1        | 0.500  |

**Sample: 8863 - DAF**

Analysis: TCLP Volatiles  
QC Batch: 2374  
Prep Batch: 2163

Analytical Method: S 8260B  
Date Analyzed: 2003-06-16  
Date Prepared: 2003-06-16

Prep Method: TCLP 1311  
Analyzed By: JG  
Prepared By: JG

| Parameter                  | Flag | RL Result | Units | Dilution | RL      |
|----------------------------|------|-----------|-------|----------|---------|
| Vinyl Chloride             |      | <0.0500   | mg/L  | 50       | 0.00100 |
| 1,1-Dichloroethene         |      | <0.0500   | mg/L  | 50       | 0.00100 |
| 2-Butanone (MEK)           |      | <0.500    | mg/L  | 50       | 0.0100  |
| Chloroform                 |      | <0.0500   | mg/L  | 50       | 0.00100 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500   | mg/L  | 50       | 0.00100 |
| Benzene                    |      | <0.0500   | mg/L  | 50       | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500   | mg/L  | 50       | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500   | mg/L  | 50       | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500   | mg/L  | 50       | 0.00100 |
| Chlorobenzene              |      | <0.0500   | mg/L  | 50       | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500   | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 48.1   | mg/L  | 1        | 50.0         | 96               | 79 - 118        |
| Toluene-d8                   |      | 48.3   | mg/L  | 1        | 50.0         | 97               | 86 - 114        |
| 4-Bromofluorobenzene (4-BFB) |      | 48.5   | mg/L  | 1        | 50.0         | 97               | 79 - 116        |

Method Blank (1) QC Batch: 2065

| Parameter    | Flag | Result  | Units | RL   |
|--------------|------|---------|-------|------|
| TCLP Mercury |      | <0.0100 | mg/L  | 0.01 |

Method Blank (1) QC Batch: 2133

| Parameter                            | Flag | Result  | Units | RL |
|--------------------------------------|------|---------|-------|----|
| Pyridine                             |      | <0.0500 | mg/L  | 10 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500 | mg/L  | 10 |
| o-Cresol                             |      | <0.0500 | mg/L  | 10 |
| m,p-Cresol                           |      | <0.0500 | mg/L  | 10 |
| Hexachloroethane                     |      | <0.0500 | mg/L  | 10 |
| Nitrobenzene                         |      | <0.0500 | mg/L  | 10 |
| Hexachlorobutadiene                  |      | <0.0500 | mg/L  | 10 |
| 2,4,6-Trichlorophenol                |      | <0.0500 | mg/L  | 10 |
| 2,4,5-Trichlorophenol                |      | <0.0500 | mg/L  | 10 |
| 2,4-Dinitrotoluene                   |      | <0.0500 | mg/L  | 10 |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500 | mg/L  | 10 |
| Hexachlorobenzene                    |      | <0.0500 | mg/L  | 10 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500 | mg/L  | 10 |
| Pentachlorophenol                    |      | <0.0500 | mg/L  | 10 |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 2-Fluorophenol       |      | 0.203  | mg/L  | 0.005    | 60.0         | 68               | 2.83 - 110.33   |
| Phenol-d5            |      | 0.157  | mg/L  | 0.005    | 60.0         | 52               | 0 - 82.08       |
| Nitrobenzene-d5      |      | 0.306  | mg/L  | 0.005    | 60.0         | 102              | 26.72 - 155     |
| 2-Fluorobiphenyl     |      | 0.304  | mg/L  | 0.005    | 60.0         | 101              | 35.89 - 150.5   |
| 2,4,6-Tribromophenol |      | 0.385  | mg/L  | 0.005    | 60.0         | 128              | 0 - 204.91      |
| Terphenyl-d14        |      | 0.420  | mg/L  | 0.005    | 60.0         | 140              | 33.98 - 168.85  |

Method Blank (1) QC Batch: 2373

| Parameter   | Flag | Result | Units | RL    |
|-------------|------|--------|-------|-------|
| TCLP Silver |      | <0.125 | mg/L  | 0.125 |

Method Blank (1) QC Batch: 2373

| Parameter     | Flag | Result  | Units | RL    |
|---------------|------|---------|-------|-------|
| TCLP Arsenic  |      | <0.100  | mg/L  | 0.1   |
| TCLP Barium   |      | <0.100  | mg/L  | 0.1   |
| TCLP Cadmium  |      | <0.0500 | mg/L  | 0.05  |
| TCLP Chromium |      | <0.100  | mg/L  | 0.1   |
| TCLP Lead     |      | <0.0370 | mg/L  | 0.037 |
| TCLP Selenium |      | <0.500  | mg/L  | 0.5   |

Method Blank (1) QC Batch: 2374

| Parameter                  | Flag | Result  | Units | RL    |
|----------------------------|------|---------|-------|-------|
| Vinyl Chloride             |      | <0.0500 | mg/L  | 0.001 |
| 1,1-Dichloroethene         |      | <0.0500 | mg/L  | 0.001 |
| 2-Butanone (MEK)           |      | <0.500  | mg/L  | 0.01  |
| Chloroform                 |      | <0.0500 | mg/L  | 0.001 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500 | mg/L  | 0.001 |
| Benzene                    |      | <0.0500 | mg/L  | 0.001 |
| Carbon Tetrachloride       |      | <0.0500 | mg/L  | 0.001 |
| Trichloroethene (TCE)      |      | <0.0500 | mg/L  | 0.001 |
| Tetrachloroethene (PCE)    |      | <0.0500 | mg/L  | 0.001 |
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.001 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 48.0   | mg/L  | 1        | 50.0         | 96               | 79 - 118        |
| Toluene-d8                   |      | 48.3   | mg/L  | 1        | 50.0         | 97               | 86 - 114        |
| 4-Bromofluorobenzene (4-BFB) |      | 49.2   | mg/L  | 1        | 50.0         | 98               | 79 - 116        |

Duplicate (1) QC Batch: 2106

| Param            | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------|------------------|---------------|-------|----------|-----|-----------|
| Reactivity       | non-reactive     | non-reactive  |       | 1        | 0   |           |
| Hydrogen Sulfide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Hydrogen Cyanide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Corrosivity      | non-corrosive    | non-corrosive | mm/yr | 1        | 0   | 20        |
| pH               | 7.80             | 7.80          | s.u.  | 1        | 0   | 20        |
| Ignitability     | non-ignitable    | non-ignitable |       | 1        | 0   | 20        |

Laboratory Control Spike (LCS-1) QC Batch: 2065

| Param                      | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Mercury <sup>12</sup> | 0.0424     | 0.0475      | mg/L  | 1    | 0.0500       | <0.000200     | 85   | 11  | 80 - 120   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 2133

| Param                      | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit     | RPD Limit |
|----------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|----------------|-----------|
| Pyridine <sup>3</sup>      | 30.9       | 28.7        | mg/L  | 1    | 60.0         | <2.41         | 52   | 7   | 12.6 - 50.02   | 20        |
| 1,4-Dichlorobenzene (para) | 64.4       | 64.2        | mg/L  | 1    | 60.0         | <1.93         | 107  | 0   | 13.67 - 139.56 | 20        |
| o-Cresol                   | 53.5       | 53.3        | mg/L  | 1    | 60.0         | <1.46         | 89   | 0   | 18.58 - 114.05 | 20        |
| m,p-Cresol                 | 114        | 112         | mg/L  | 1    | 60.0         | <1.19         | 190  | 2   | 10.62 - 252.59 | 20        |

continued ...

<sup>1</sup>no flag needed error in versalims

<sup>2</sup>Changed spike amount from 0.001 to 0.05 due to error in versalims spike amount

<sup>3</sup>The average of the spike compound recoveries shows that the process is in control.



control spikes continued ...

| Param                                              | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit  | RPD<br>Limit |
|----------------------------------------------------|---------------|----------------|-------|------|-----------------|------------------|------|-----|----------------|--------------|
| Hexachloroethane                                   | 68.0          | 67.5           | mg/L  | 1    | 60.0            | <1.91            | 113  | 1   | 25.17 - 146.78 | 20           |
| Nitrobenzene                                       | 65.5          | 66.3           | mg/L  | 1    | 60.0            | <1.50            | 109  | 1   | 26.78 - 144.08 | 20           |
| Hexachlorobutadiene                                | 64.1          | 65.1           | mg/L  | 1    | 60.0            | <1.57            | 107  | 2   | 0 - 171.61     | 20           |
| 2,4,6-Trichlorophenol                              | 45.8          | 45.7           | mg/L  | 1    | 60.0            | <1.64            | 76   | 0   | 19.23 - 144.93 | 20           |
| 2,4,5-Trichlorophenol                              | 53.1          | 57.1           | mg/L  | 1    | 60.0            | <1.95            | 88   | 7   | 40.38 - 144.67 | 20           |
| 2,4-Dinitrotoluene                                 | 66.8          | 68.7           | mg/L  | 1    | 60.0            | <2.09            | 111  | 3   | 18.51 - 158.26 | 20           |
| 2,4-Dichlorophenoxyacetic acid <sup>45</sup>       | 100           | 100            | mg/L  | 1    | 60.0            | 0                | 167  | 0   | 0 - 165.81     | 20           |
| Hexachlorobenzene                                  | 75.8          | 76.2           | mg/L  | 1    | 60.0            | <1.63            | 126  | 0   | 2.35 - 182.77  | 20           |
| 2,4,5-Trichlorophenoxypropionic acid <sup>67</sup> | 90.7          | 93.3           | mg/L  | 1    | 60.0            | 0                | 151  | 3   | 22.1 - 144.74  | 20           |
| Pentachlorophenol                                  | 29.2          | 32.3           | mg/L  | 1    | 60.0            | <3.04            | 49   | 10  | 0 - 156.72     | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit  |
|----------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|----------------|
| 2-Fluorophenol       | 35.1          | 34.7           | mg/L  | 1    | 60.0            | 58          | 58           | 2.83 - 110.33  |
| Phenol-d5            | 31.6          | 31.7           | mg/L  | 1    | 60.0            | 53          | 53           | 0 - 82.08      |
| Nitrobenzene-d5      | 66.1          | 66.9           | mg/L  | 1    | 60.0            | 110         | 112          | 26.72 - 155    |
| 2-Fluorobiphenyl     | 65.7          | 65.3           | mg/L  | 1    | 60.0            | 110         | 109          | 35.89 - 150.5  |
| 2,4,6-Tribromophenol | 40.2          | 47.9           | mg/L  | 1    | 60.0            | 67          | 80           | 0 - 204.91     |
| Terphenyl-d14        | 86.3          | 84.2           | mg/L  | 1    | 60.0            | 144         | 140          | 33.98 - 168.85 |

Laboratory Control Spike (LCS-1) QC Batch: 2373

| Param       | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit | RPD<br>Limit |
|-------------|---------------|----------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| TCLP Silver | 1.39          | 1.37           | mg/L  | 1    | 1.25            | <0.00780         | 111  | 1   | 75 - 125      | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 2373

| Param         | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit | RPD<br>Limit |
|---------------|---------------|----------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| TCLP Arsenic  | 5.50          | 5.50           | mg/L  | 1    | 5.00            | <0.0590          | 110  | 0   | 75 - 125      | 20           |
| TCLP Barium   | 11.7          | 11.0           | mg/L  | 1    | 10.0            | <0.00340         | 117  | 6   | 75 - 125      | 20           |
| TCLP Cadmium  | 2.67          | 2.67           | mg/L  | 1    | 2.50            | <0.00270         | 107  | 0   | 75 - 125      | 20           |
| TCLP Chromium | 1.11          | 1.11           | mg/L  | 1    | 1.00            | <0.00660         | 111  | 0   | 75 - 125      | 20           |
| TCLP Lead     | 4.77          | 4.77           | mg/L  | 1    | 5.00            | <0.0370          | 95   | 0   | 75 - 125      | 20           |
| TCLP Selenium | 3.99          | 3.99           | mg/L  | 1    | 5.00            | <0.100           | 80   | 0   | 75 - 125      | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 2374

continued ...

<sup>4</sup>The average of the spike compound recoveries shows that the process is in control.

<sup>5</sup>The average of the spike compound recoveries shows that the process is in control.

<sup>6</sup>The average of the spike compound recoveries shows that the process is in control.

<sup>7</sup>The average of the spike compound recoveries shows that the process is in control.

control spikes continued ...

| Param                      | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Param                      | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
| Vinyl Chloride             | 3.47       | 3.47        | mg/L  | 50   | 0.100        | <0.00845      | 69   | 0   | 55 - 131   | 20        |
| 1,1-Dichloroethene         | 4.47       | 4.42        | mg/L  | 50   | 0.100        | <0.00790      | 89   | 1   | 81 - 119   | 20        |
| 2-Butanone (MEK)           | 5.61       | 5.81        | mg/L  | 50   | 0.100        | <0.0185       | 112  | 4   | 41 - 157   | 20        |
| Chloroform                 | 4.85       | 4.85        | mg/L  | 50   | 0.100        | <0.00480      | 97   | 0   | 79 - 126   | 20        |
| 1,2-Dichloroethane (EDC)   | 4.91       | 4.99        | mg/L  | 50   | 0.100        | <0.00470      | 98   | 2   | 72 - 131   | 20        |
| Benzene                    | 4.82       | 4.82        | mg/L  | 50   | 0.100        | <0.00520      | 96   | 0   | 87 - 118   | 20        |
| Carbon Tetrachloride       | 6.33       | 6.28        | mg/L  | 50   | 0.100        | <0.00390      | 127  | 1   | 43 - 162   | 20        |
| Trichloroethene (TCE)      | 4.78       | 4.74        | mg/L  | 50   | 0.100        | <0.00585      | 96   | 1   | 78 - 110   | 20        |
| Tetrachloroethene (PCE)    | 3.28       | 3.26        | mg/L  | 50   | 0.100        | <0.0205       | 66   | 1   | 48 - 81    | 20        |
| Chlorobenzene              | 4.77       | 4.82        | mg/L  | 50   | 0.100        | <0.00300      | 95   | 1   | 90 - 111   | 20        |
| 1,4-Dichlorobenzene (para) | 4.74       | 4.76        | mg/L  | 50   | 0.100        | <0.00425      | 95   | 0   | 81 - 115   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Dibromofluoromethane         | 47.3       | 47.4        | mg/L  | 1    | 50.0         | 95       | 95        | 79 - 118   |
| Toluene-d8                   | 47.5       | 47.8        | mg/L  | 1    | 50.0         | 95       | 96        | 86 - 114   |
| 4-Bromofluorobenzene (4-BFB) | 48.8       | 48.9        | mg/L  | 1    | 50.0         | 98       | 98        | 79 - 116   |

Matrix Spike (MS-1) QC Batch: 2065

| Param                      | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Mercury <sup>89</sup> | 0.0445    | 0.0417     | mg/L  | 1    | 0.0500       | <0.000200     | 89   | 6   | 80 - 120   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2133

| Param                          | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit     | RPD Limit |
|--------------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|----------------|-----------|
| Pyridine <sup>1011</sup>       | 35.5      | 33.0       | mg/L  | 1    | 60.0         | <2.41         | 59   | 7   | 12.6 - 50.02   | 20        |
| 1,4-Dichlorobenzene (para)     | 53.2      | 45.8       | mg/L  | 1    | 60.0         | <1.93         | 89   | 15  | 13.67 - 139.56 | 20        |
| o-Cresol                       | 43.6      | 42.6       | mg/L  | 1    | 60.0         | <1.46         | 73   | 2   | 18.58 - 114.05 | 20        |
| m,p-Cresol                     | 89.1      | 88.0       | mg/L  | 1    | 60.0         | <1.19         | 148  | 1   | 10.62 - 252.59 | 20        |
| Hexachloroethane               | 59.0      | 57.5       | mg/L  | 1    | 60.0         | <1.91         | 98   | 2   | 25.17 - 146.78 | 20        |
| Nitrobenzene                   | 66.7      | 66.8       | mg/L  | 1    | 60.0         | <1.50         | 111  | 0   | 26.78 - 144.08 | 20        |
| Hexachlorobutadiene            | 57.0      | 58.2       | mg/L  | 1    | 60.0         | <1.57         | 95   | 2   | 0 - 171.61     | 20        |
| 2,4,6-Trichlorophenol          | 63.1      | 62.6       | mg/L  | 1    | 60.0         | <1.64         | 105  | 1   | 19.23 - 144.93 | 20        |
| 2,4,5-Trichlorophenol          | 68.7      | 66.7       | mg/L  | 1    | 60.0         | <1.95         | 114  | 3   | 40.38 - 144.67 | 20        |
| 2,4-Dinitrotoluene             | 61.5      | 62.1       | mg/L  | 1    | 60.0         | <2.09         | 102  | 1   | 18.51 - 158.26 | 20        |
| 2,4-Dichlorophenoxyacetic acid | 90.7      | 91.7       | mg/L  | 1    | 60.0         | 0             | 151  | 1   | 0 - 165.81     | 20        |
| Hexachlorobenzene              | 66.4      | 66.9       | mg/L  | 1    | 60.0         | <1.63         | 111  | 1   | 2.35 - 182.77  | 20        |

continued ...

<sup>8</sup>Changed spike amount from 0.001 to 0.05 due to error in versalims spike amount

<sup>9</sup>Changed spike amount from 0.001 to 0.05 due to error in versalims spike amount

<sup>10</sup>The average of the spike compound recoveries shows that the process is in control.

<sup>11</sup>The average of the spike compound recoveries shows that the process is in control.

matrix spikes continued ...

| Param                                                | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit    | RPD Limit |
|------------------------------------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|---------------|-----------|
| 2,4,5-Trichlorophenoxypropionic acid <sup>1213</sup> | 96.0      | 102        | mg/L  | 1    | 60.0         | 0             | 160  | 6   | 22.1 - 144.74 | 20        |
| Pentachlorophenol                                    | 66.4      | 65.7       | mg/L  | 1    | 60.0         | <3.04         | 111  | 1   | 0 - 156.72    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit     |
|----------------------|-----------|------------|-------|------|--------------|---------|----------|----------------|
| 2-Fluorophenol       | 34.4      | 34.9       | mg/L  | 1    | 60           | 57      | 58       | 2.83 - 110.33  |
| Phenol-d5            | 22.4      | 22.3       | mg/L  | 1    | 60           | 37      | 37       | 0 - 82.08      |
| Nitrobenzene-d5      | 73.6      | 74.2       | mg/L  | 1    | 60           | 123     | 124      | 26.72 - 155    |
| 2-Fluorobiphenyl     | 72.0      | 71.8       | mg/L  | 1    | 60           | 120     | 120      | 35.89 - 150.5  |
| 2,4,6-Tribromophenol | 45.6      | 47.8       | mg/L  | 1    | 60           | 76      | 80       | 0 - 204.91     |
| Terphenyl-d14        | 75.8      | 77.6       | mg/L  | 1    | 60           | 126     | 129      | 33.98 - 168.85 |

Matrix Spike (MS-1) QC Batch: 2373

| Param       | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|-------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Silver | 1.31      | 1.32       | mg/L  | 1    | 1.25         | <0.00780      | 105  | 1   | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2373

| Param         | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Arsenic  | 4.72      | 4.42       | mg/L  | 1    | 5.00         | <0.0590       | 94   | 6   | 75 - 125   | 20        |
| TCLP Barium   | 11.6      | 11.7       | mg/L  | 1    | 10.0         | 0.519         | 111  | 1   | 75 - 125   | 20        |
| TCLP Cadmium  | 2.70      | 2.72       | mg/L  | 1    | 2.50         | <0.00270      | 108  | 1   | 75 - 125   | 20        |
| TCLP Chromium | 1.09      | 1.11       | mg/L  | 1    | 1.00         | 0.02          | 107  | 2   | 75 - 125   | 20        |
| TCLP Lead     | 4.88      | 5.33       | mg/L  | 1    | 5.00         | 0.205         | 94   | 9   | 75 - 125   | 20        |
| TCLP Selenium | 4.69      | 4.18       | mg/L  | 1    | 5.00         | <0.100        | 94   | 11  | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2374

| Param                    | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Vinyl Chloride           | 3.91      | 4.02       | mg/L  | 50   | 0.100        | <0.00845      | 78   | 3   | 58 - 136   | 20        |
| 1,1-Dichloroethene       | 4.63      | 4.70       | mg/L  | 50   | 0.100        | <0.00790      | 93   | 2   | 81 - 125   | 20        |
| 2-Butanone (MEK)         | 3.99      | 3.98       | mg/L  | 50   | 0.100        | <0.0185       | 80   | 0   | 33 - 122   | 20        |
| Chloroform               | 5.16      | 5.26       | mg/L  | 50   | 0.100        | <0.00480      | 103  | 2   | 81 - 130   | 20        |
| 1,2-Dichloroethane (EDC) | 5.46      | 5.56       | mg/L  | 50   | 0.100        | <0.00470      | 109  | 2   | 76 - 137   | 20        |
| Benzene                  | 5.11      | 5.14       | mg/L  | 50   | 0.100        | <0.00520      | 102  | 0   | 88 - 121   | 20        |
| Carbon Tetrachloride     | 6.15      | 5.62       | mg/L  | 50   | 0.100        | <0.00390      | 123  | 9   | 56 - 156   | 20        |
| Trichloroethene (TCE)    | 4.81      | 4.83       | mg/L  | 50   | 0.100        | <0.00585      | 96   | 0   | 77 - 111   | 20        |
| Tetrachloroethene (PCE)  | 3.27      | 3.27       | mg/L  | 50   | 0.100        | <0.0205       | 65   | 0   | 48 - 80    | 20        |
| Chlorobenzene            | 4.91      | 4.93       | mg/L  | 50   | 0.100        | <0.00300      | 98   | 0   | 89 - 113   | 20        |

continued ...

<sup>12</sup>The average of the spike compound recoveries shows that the process is in control.

<sup>13</sup>The average of the spike compound recoveries shows that the process is in control.

matrix spikes continued ...

| Param                      | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| 1,4-Dichlorobenzene (para) | 4.84      | 4.84       | mg/L  | 50   | 0.100        | <0.00425      | 97   | 0   | 82 - 113   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Dibromofluoromethane         | 49.3      | 49.1       | mg/L  | 1    | 50           | 99      | 98       | 79 - 118   |
| Toluene-d8                   | 48.5      | 48.4       | mg/L  | 1    | 50           | 97      | 97       | 86 - 114   |
| 4-Bromofluorobenzene (4-BFB) | 48.2      | 47.5       | mg/L  | 1    | 50           | 96      | 95       | 79 - 116   |

Standard (ICV-1) QC Batch: 2065

| Param        | Flag          | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|---------------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| TCLP Mercury | <sup>14</sup> | mg/L  | 0.00500         | 0.00505          | 101                   | 90 - 110                | 2003-06-06    |

Standard (CCV-1) QC Batch: 2065

| Param        | Flag          | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|---------------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| TCLP Mercury | <sup>15</sup> | mg/L  | 0.00500         | 0.00508          | 102                   | 80 - 120                | 2003-06-06    |

Standard (CCV-1) QC Batch: 2133

| Param                                | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------------------------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Pyridine                             |      | mg/L  | 60.0            | 58.8             | 98                    | 80 - 120                | 2003-06-09    |
| 1,4-Dichlorobenzene (para)           |      | mg/L  | 60.0            | 62.6             | 104                   | 80 - 120                | 2003-06-09    |
| o-Cresol                             |      | mg/L  | 60.0            | 64.1             | 107                   | 80 - 120                | 2003-06-09    |
| m,p-Cresol                           |      | mg/L  | 60.0            | 62.8             | 105                   | 80 - 120                | 2003-06-09    |
| Hexachloroethane                     |      | mg/L  | 60.0            | 65.0             | 108                   | 80 - 120                | 2003-06-09    |
| Nitrobenzene                         |      | mg/L  | 60.0            | 67.3             | 112                   | 80 - 120                | 2003-06-09    |
| Hexachlorobutadiene                  |      | mg/L  | 60.0            | 64.6             | 108                   | 80 - 120                | 2003-06-09    |
| 2,4,6-Trichlorophenol                |      | mg/L  | 60.0            | 66.4             | 111                   | 80 - 120                | 2003-06-09    |
| 2,4,5-Trichlorophenol                |      | mg/L  | 60.0            | 63.2             | 105                   | 80 - 120                | 2003-06-09    |
| 2,4-Dinitrotoluene                   |      | mg/L  | 60.0            | 63.1             | 105                   | 80 - 120                | 2003-06-09    |
| 2,4-Dichlorophenoxyacetic acid       |      | mg/L  | 60.0            | 58.7             | 98                    | 80 - 120                | 2003-06-09    |
| Hexachlorobenzene                    |      | mg/L  | 60.0            | 65.1             | 108                   | 80 - 120                | 2003-06-09    |
| 2,4,5-Trichlorophenoxypropionic acid |      | mg/L  | 60.0            | 65.6             | 109                   | 80 - 120                | 2003-06-09    |
| Pentachlorophenol                    |      | mg/L  | 60.0            | 65.4             | 109                   | 80 - 120                | 2003-06-09    |

| Surrogate       | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limit |
|-----------------|------|--------|-------|----------|--------------|------------------|----------------|
| 2-Fluorophenol  |      | 65.8   | mg/L  | 1        | 60.0         | 110              | 80 - 120       |
| Phenol-d5       |      | 63.5   | mg/L  | 1        | 60.0         | 106              | 80 - 120       |
| Nitrobenzene-d5 |      | 67.3   | mg/L  | 1        | 60.0         | 112              | 80 - 120       |

continued ...

<sup>14</sup>Changed spike amount from 0.001 to 0.005 due to error in versalims spike amount

<sup>15</sup>Changed spike amount from 0.001 to 0.005 due to error in versalims spike amount

standard continued ...

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limit |
|----------------------|------|--------|-------|----------|--------------|------------------|----------------|
| 2-Fluorobiphenyl     |      | 62.5   | mg/L  | 1        | 60.0         | 104              | 80 - 120       |
| 2,4,6-Tribromophenol |      | 55.1   | mg/L  | 1        | 60.0         | 92               | 80 - 120       |
| Terphenyl-d14        |      | 60.1   | mg/L  | 1        | 60.0         | 100              | 80 - 120       |

Standard (ICV-1) QC Batch: 2373

| Param       | Flag          | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------------|---------------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| TCLP Silver | <sup>16</sup> | mg/L  | 0.125           | 0.131            | 105                   | 90 - 110                | 2003-06-05    |

Standard (ICV-1) QC Batch: 2373

| Param         | Flag          | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------|---------------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| TCLP Arsenic  |               | mg/L  | 1.00            | 1.05             | 105                   | 90 - 110                | 2003-06-05    |
| TCLP Barium   | <sup>17</sup> | mg/L  | 1.00            | 1.03             | 103                   | 90 - 110                | 2003-06-05    |
| TCLP Cadmium  | <sup>18</sup> | mg/L  | 1.00            | 1.01             | 101                   | 90 - 110                | 2003-06-05    |
| TCLP Chromium | <sup>19</sup> | mg/L  | 1.00            | 1.01             | 101                   | 90 - 110                | 2003-06-05    |
| TCLP Lead     |               | mg/L  | 1.00            | 0.989            | 99                    | 90 - 110                | 2003-06-05    |
| TCLP Selenium |               | mg/L  | 1.00            | 1.00             | 100                   | 90 - 110                | 2003-06-05    |

Standard (CCV-1) QC Batch: 2373

| Param       | Flag          | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------------|---------------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| TCLP Silver | <sup>20</sup> | mg/L  | 0.125           | 0.129            | 103                   | 90 - 110                | 2003-06-05    |

Standard (CCV-1) QC Batch: 2373

| Param         | Flag          | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------|---------------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| TCLP Arsenic  |               | mg/L  | 1.00            | 0.925            | 92                    | 90 - 110                | 2003-06-05    |
| TCLP Barium   | <sup>21</sup> | mg/L  | 1.00            | 1.03             | 103                   | 90 - 110                | 2003-06-05    |
| TCLP Cadmium  | <sup>22</sup> | mg/L  | 1.00            | 1.03             | 103                   | 90 - 110                | 2003-06-05    |
| TCLP Chromium | <sup>23</sup> | mg/L  | 1.00            | 1.01             | 101                   | 90 - 110                | 2003-06-05    |
| TCLP Lead     |               | mg/L  | 1.00            | 0.969            | 97                    | 90 - 110                | 2003-06-05    |
| TCLP Selenium |               | mg/L  | 1.00            | 0.970            | 97                    | 90 - 110                | 2003-06-05    |

Standard (CCV-1) QC Batch: 2374

<sup>16</sup>Changed spike amount from 0.25 to 0.125 due to concentration in spiking solution.

<sup>17</sup>Changed spike amount from 2 to 1 due to concentration in spiking solution.

<sup>18</sup>Changed spike amount from 0.5 to 1 due to concentration in spiking solution.

<sup>19</sup>Changed spike amount from 0.2 to 1 due to concentration in spiking solution.

<sup>20</sup>Changed spike amount from 0.25 to 0.125 due to concentration in spiking solution.

<sup>21</sup>Changed spike amount from 2 to 1 due to concentration in spiking solution.

<sup>22</sup>Changed spike amount from 0.5 to 1 due to concentration in spiking solution.

<sup>23</sup>Changed spike amount from 0.2 to 1 due to concentration in spiking solution.

| Param                      | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Vinyl Chloride             |      | mg/L  | 50.0                  | 41.0                   | 82                          | 80 - 120                      | 2003-06-16       |
| 1,1-Dichloroethene         |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-06-16       |
| 2-Butanone (MEK)           |      | mg/L  | 50.0                  | 45.0                   | 90                          | 80 - 120                      | 2003-06-16       |
| Chloroform                 |      | mg/L  | 50.0                  | 48.0                   | 96                          | 80 - 120                      | 2003-06-16       |
| 1,2-Dichloroethane (EDC)   |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-06-16       |
| Benzene                    |      | mg/L  | 50.0                  | 47.0                   | 94                          | 80 - 120                      | 2003-06-16       |
| Carbon Tetrachloride       | 24   | mg/L  | 50.0                  | 62.0                   | 124                         | 80 - 120                      | 2003-06-16       |
| Trichloroethene (TCE)      |      | mg/L  | 50.0                  | 49.0                   | 98                          | 80 - 120                      | 2003-06-16       |
| Tetrachloroethene (PCE)    | 25   | mg/L  | 50.0                  | 37.0                   | 74                          | 80 - 120                      | 2003-06-16       |
| Chlorobenzene              |      | mg/L  | 50.0                  | 47.0                   | 94                          | 80 - 120                      | 2003-06-16       |
| 1,4-Dichlorobenzene (para) |      | mg/L  | 50.0                  | 48.0                   | 96                          | 80 - 120                      | 2003-06-16       |

<sup>24</sup>average of all ccv analytes=94 which is within acceptable limits showing analysis to be in control.

<sup>25</sup>average of all ccv analytes=94 which is within acceptable limits showing analysis to be in control.



# TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
155 McCutcheon, Suite H

Lubbock, Texas 79424 800•378•1296  
El Paso, Texas 79932 888•588•3443  
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298  
915•585•3443 FAX 915•585•4944

## Analytical and Quality Control Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: June 23, 2003

Work Order: 3060405

Project Location: Artesia  
Project Name: Misc. TCLP  
Project Number: Misc. TCLP

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description   | Matrix | Date<br>Taken | Time<br>Taken | Date<br>Received |
|--------|---------------|--------|---------------|---------------|------------------|
| 8864   | FCC Prier Med | Solid  | 2003-06-03    | 15:30         | 2003-06-04       |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

  
\_\_\_\_\_  
Dr. Blair Leftwich, Director

## Analytical Report

### Sample: 8864 - FCC Prier Med

|             |      |                    |                        |              |     |
|-------------|------|--------------------|------------------------|--------------|-----|
| Analysis:   | RCI  | Analytical Method: | ASTM D 5049-90/4978-95 | Prep Method: | N/A |
| QC Batch:   | 2106 | Date Analyzed:     | 2003-06-09             | Analyzed By: | JH  |
| Prep Batch: | 1892 | Date Prepared:     | 2003-06-09             | Prepared By: | JH  |
| Analysis:   | RCI  | Analytical Method: | S 1110                 | Prep Method: | N/A |
| Analysis:   | RCI  | Analytical Method: | SW-846 Ch. 7.1         | Prep Method: | N/A |

| Parameter        | Flag | RL<br>Result  | Units | Dilution | RL   |
|------------------|------|---------------|-------|----------|------|
| Reactivity       |      | non-reactive  |       | 1        | 0.00 |
| Hydrogen Sulfide |      | <10.0         | mg/Kg | 1        | 10.0 |
| Hydrogen Cyanide |      | <2.50         | mg/Kg | 1        | 2.50 |
| Corrosivity      |      | non-corrosive | mm/yr | 1        | 0.00 |
| pH               |      | 8.80          | s.u.  | 1        | 0.00 |
| Ignitability     |      | non-ignitable |       | 1        | 0.00 |

### Sample: 8864 - FCC Prier Med

|             |         |                    |            |              |           |
|-------------|---------|--------------------|------------|--------------|-----------|
| Analysis:   | TCLP Ag | Analytical Method: | S 6010B    | Prep Method: | TCLP 1311 |
| QC Batch:   | 2373    | Date Analyzed:     | 2003-06-05 | Analyzed By: | RR        |
| Prep Batch: | 1833    | Date Prepared:     | 2003-06-04 | Prepared By: | TP        |

| Parameter   | Flag | RL<br>Result | Units | Dilution | RL    |
|-------------|------|--------------|-------|----------|-------|
| TCLP Silver |      | <0.125       | mg/L  | 1        | 0.125 |

### Sample: 8864 - FCC Prier Med

|             |                    |                    |            |              |           |
|-------------|--------------------|--------------------|------------|--------------|-----------|
| Analysis:   | TCLP Semivolatiles | Analytical Method: | S 8270C    | Prep Method: | TCLP 1311 |
| QC Batch:   | 2133               | Date Analyzed:     | 2003-06-09 | Analyzed By: | RC        |
| Prep Batch: | 1805               | Date Prepared:     | 2003-06-04 | Prepared By: | JH        |

| Parameter                            | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------------------------------|------|--------------|-------|----------|------|
| Pyridine                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| o-Cresol                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| m,p-Cresol                           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachloroethane                     |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Nitrobenzene                         |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobutadiene                  |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,6-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dinitrotoluene                   |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobenzene                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Pentachlorophenol                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |



| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 2-Fluorophenol       |      | 0.191  | mg/L  | 0.005    | 60.0         | 64               | 2.83 - 110.33   |
| Phenol-d5            |      | 0.125  | mg/L  | 0.005    | 60.0         | 42               | 0 - 82.08       |
| Nitrobenzene-d5      |      | 0.348  | mg/L  | 0.005    | 60.0         | 116              | 26.72 - 155     |
| 2-Fluorobiphenyl     |      | 0.327  | mg/L  | 0.005    | 60.0         | 109              | 35.89 - 150.5   |
| 2,4,6-Tribromophenol |      | 0.244  | mg/L  | 0.005    | 60.0         | 81               | 0 - 204.91      |
| Terphenyl-d14        |      | 0.304  | mg/L  | 0.005    | 60.0         | 101              | 33.98 - 168.85  |

**Sample: 8864 - FCC Prier Med**

|                               |                            |                        |
|-------------------------------|----------------------------|------------------------|
| Analysis: TCLP Total 8 Metals | Analytical Method: S 7470A | Prep Method: TCLP 1311 |
| QC Batch: 2065                | Date Analyzed: 2003-06-06  | Analyzed By: BC        |
| Prep Batch: 1867              | Date Prepared: 2003-06-05  | Prepared By: BC        |
| Analysis: TCLP Total 8 Metals | Analytical Method: S 6010B | Prep Method: TCLP 1311 |
| QC Batch: 2373                | Date Analyzed: 2003-06-05  | Analyzed By: RR        |
| Prep Batch: 1833              | Date Prepared: 2003-06-04  | Prepared By: TP        |

| Parameter     | Flag | RL<br>Result | Units | Dilution | RL     |
|---------------|------|--------------|-------|----------|--------|
| TCLP Arsenic  |      | <0.100       | mg/L  | 1        | 0.100  |
| TCLP Barium   |      | 2.03         | mg/L  | 1        | 0.100  |
| TCLP Cadmium  |      | <0.0500      | mg/L  | 1        | 0.0500 |
| TCLP Chromium |      | <0.100       | mg/L  | 1        | 0.100  |
| TCLP Mercury  |      | <0.0100      | mg/L  | 1        | 0.0100 |
| TCLP Lead     |      | <0.0370      | mg/L  | 1        | 0.0370 |
| TCLP Selenium |      | <0.500       | mg/L  | 1        | 0.500  |

**Sample: 8864 - FCC Prier Med**

|                          |                            |                        |
|--------------------------|----------------------------|------------------------|
| Analysis: TCLP Volatiles | Analytical Method: S 8260B | Prep Method: TCLP 1311 |
| QC Batch: 2374           | Date Analyzed: 2003-06-16  | Analyzed By: JG        |
| Prep Batch: 2163         | Date Prepared: 2003-06-16  | Prepared By: JG        |

| Parameter                  | Flag | RL<br>Result | Units | Dilution | RL      |
|----------------------------|------|--------------|-------|----------|---------|
| Vinyl Chloride             |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,1-Dichloroethene         |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 2-Butanone (MEK)           |      | <0.500       | mg/L  | 50       | 0.0100  |
| Chloroform                 |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Benzene                    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Chlorobenzene              |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500      | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 48.6   | mg/L  | 1        | 50.0         | 97               | 79 - 118        |
| Toluene-d8                   |      | 48.9   | mg/L  | 1        | 50.0         | 98               | 86 - 114        |
| 4-Bromofluorobenzene (4-BFB) |      | 47.7   | mg/L  | 1        | 50.0         | 95               | 79 - 116        |

Method Blank (1) QC Batch: 2065

| Parameter    | Flag | Result  | Units | RL   |
|--------------|------|---------|-------|------|
| TCLP Mercury |      | <0.0100 | mg/L  | 0.01 |

Method Blank (1) QC Batch: 2133

| Parameter                            | Flag | Result  | Units | RL |
|--------------------------------------|------|---------|-------|----|
| Pyridine                             |      | <0.0500 | mg/L  | 10 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500 | mg/L  | 10 |
| o-Cresol                             |      | <0.0500 | mg/L  | 10 |
| m,p-Cresol                           |      | <0.0500 | mg/L  | 10 |
| Hexachloroethane                     |      | <0.0500 | mg/L  | 10 |
| Nitrobenzene                         |      | <0.0500 | mg/L  | 10 |
| Hexachlorobutadiene                  |      | <0.0500 | mg/L  | 10 |
| 2,4,6-Trichlorophenol                |      | <0.0500 | mg/L  | 10 |
| 2,4,5-Trichlorophenol                |      | <0.0500 | mg/L  | 10 |
| 2,4-Dinitrotoluene                   |      | <0.0500 | mg/L  | 10 |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500 | mg/L  | 10 |
| Hexachlorobenzene                    |      | <0.0500 | mg/L  | 10 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500 | mg/L  | 10 |
| Pentachlorophenol                    |      | <0.0500 | mg/L  | 10 |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 2-Fluorophenol       |      | 0.203  | mg/L  | 0.005    | 60.0         | 68               | 2.83 - 110.33   |
| Phenol-d5            |      | 0.157  | mg/L  | 0.005    | 60.0         | 52               | 0 - 82.08       |
| Nitrobenzene-d5      |      | 0.306  | mg/L  | 0.005    | 60.0         | 102              | 26.72 - 155     |
| 2-Fluorobiphenyl     |      | 0.304  | mg/L  | 0.005    | 60.0         | 101              | 35.89 - 150.5   |
| 2,4,6-Tribromophenol |      | 0.385  | mg/L  | 0.005    | 60.0         | 128              | 0 - 204.91      |
| Terphenyl-d14        |      | 0.420  | mg/L  | 0.005    | 60.0         | 140              | 33.98 - 168.85  |

Method Blank (1) QC Batch: 2373

| Parameter   | Flag | Result | Units | RL    |
|-------------|------|--------|-------|-------|
| TCLP Silver |      | <0.125 | mg/L  | 0.125 |

Method Blank (1) QC Batch: 2373

| Parameter     | Flag | Result  | Units | RL    |
|---------------|------|---------|-------|-------|
| TCLP Arsenic  |      | <0.100  | mg/L  | 0.1   |
| TCLP Barium   |      | <0.100  | mg/L  | 0.1   |
| TCLP Cadmium  |      | <0.0500 | mg/L  | 0.05  |
| TCLP Chromium |      | <0.100  | mg/L  | 0.1   |
| TCLP Lead     |      | <0.0370 | mg/L  | 0.037 |
| TCLP Selenium |      | <0.500  | mg/L  | 0.5   |

Method Blank (1) QC Batch: 2374

| Parameter                  | Flag | Result  | Units | RL    |
|----------------------------|------|---------|-------|-------|
| Vinyl Chloride             |      | <0.0500 | mg/L  | 0.001 |
| 1,1-Dichloroethene         |      | <0.0500 | mg/L  | 0.001 |
| 2-Butanone (MEK)           |      | <0.500  | mg/L  | 0.01  |
| Chloroform                 |      | <0.0500 | mg/L  | 0.001 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500 | mg/L  | 0.001 |
| Benzene                    |      | <0.0500 | mg/L  | 0.001 |
| Carbon Tetrachloride       |      | <0.0500 | mg/L  | 0.001 |
| Trichloroethene (TCE)      |      | <0.0500 | mg/L  | 0.001 |
| Tetrachloroethene (PCE)    |      | <0.0500 | mg/L  | 0.001 |
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.001 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 48.0   | mg/L  | 1        | 50.0         | 96               | 79 - 118        |
| Toluene-d8                   |      | 48.3   | mg/L  | 1        | 50.0         | 97               | 86 - 114        |
| 4-Bromofluorobenzene (4-BFB) |      | 49.2   | mg/L  | 1        | 50.0         | 98               | 79 - 116        |

Duplicate (1) QC Batch: 2106

| Param            | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------|------------------|---------------|-------|----------|-----|-----------|
| Reactivity       | non-reactive     | non-reactive  |       | 1        | 0   |           |
| Hydrogen Sulfide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Hydrogen Cyanide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Corrosivity      | non-corrosive    | non-corrosive | mm/yr | 1        | 0   | 20        |
| pH               | 7.80             | 7.80          | s.u.  | 1        | 0   | 20        |
| Ignitability     | non-ignitable    | non-ignitable |       | 1        | 0   | 20        |

Laboratory Control Spike (LCS-1) QC Batch: 2065

| Param                      | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Mercury <sup>12</sup> | 0.0424     | 0.0475      | mg/L  | 1    | 0.0500       | <0.000200     | 85   | 11  | 80 - 120   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 2133

| Param                      | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit     | RPD Limit |
|----------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|----------------|-----------|
| Pyridine <sup>3</sup>      | 30.9       | 28.7        | mg/L  | 1    | 60.0         | <2.41         | 52   | 7   | 12.6 - 50.02   | 20        |
| 1,4-Dichlorobenzene (para) | 64.4       | 64.2        | mg/L  | 1    | 60.0         | <1.93         | 107  | 0   | 13.67 - 139.56 | 20        |
| o-Cresol                   | 53.5       | 53.3        | mg/L  | 1    | 60.0         | <1.46         | 89   | 0   | 18.58 - 114.05 | 20        |
| m,p-Cresol                 | 114        | 112         | mg/L  | 1    | 60.0         | <1.19         | 190  | 2   | 10.62 - 252.59 | 20        |

continued ...

<sup>1</sup>no flag needed error in versalims

<sup>2</sup>Changed spike amount from 0.001 to 0.05 due to error in versalims spike amount

<sup>3</sup>The average of the spike compound recoveries shows that the process is in control.

control spikes continued ...

| Param                                              | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit     | RPD Limit |
|----------------------------------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|----------------|-----------|
| Hexachloroethane                                   | 68.0       | 67.5        | mg/L  | 1    | 60.0         | <1.91         | 113  | 1   | 25.17 - 146.78 | 20        |
| Nitrobenzene                                       | 65.5       | 66.3        | mg/L  | 1    | 60.0         | <1.50         | 109  | 1   | 26.78 - 144.08 | 20        |
| Hexachlorobutadiene                                | 64.1       | 65.1        | mg/L  | 1    | 60.0         | <1.57         | 107  | 2   | 0 - 171.61     | 20        |
| 2,4,6-Trichlorophenol                              | 45.8       | 45.7        | mg/L  | 1    | 60.0         | <1.64         | 76   | 0   | 19.23 - 144.93 | 20        |
| 2,4,5-Trichlorophenol                              | 53.1       | 57.1        | mg/L  | 1    | 60.0         | <1.95         | 88   | 7   | 40.38 - 144.67 | 20        |
| 2,4-Dinitrotoluene                                 | 66.8       | 68.7        | mg/L  | 1    | 60.0         | <2.09         | 111  | 3   | 18.51 - 158.26 | 20        |
| 2,4-Dichlorophenoxyacetic acid <sup>45</sup>       | 100        | 100         | mg/L  | 1    | 60.0         | 0             | 167  | 0   | 0 - 165.81     | 20        |
| Hexachlorobenzene                                  | 75.8       | 76.2        | mg/L  | 1    | 60.0         | <1.63         | 126  | 0   | 2.35 - 182.77  | 20        |
| 2,4,5-Trichlorophenoxypropionic acid <sup>67</sup> | 90.7       | 93.3        | mg/L  | 1    | 60.0         | 0             | 151  | 3   | 22.1 - 144.74  | 20        |
| Pentachlorophenol                                  | 29.2       | 32.3        | mg/L  | 1    | 60.0         | <3.04         | 49   | 10  | 0 - 156.72     | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit     |
|----------------------|------------|-------------|-------|------|--------------|----------|-----------|----------------|
| 2-Fluorophenol       | 35.1       | 34.7        | mg/L  | 1    | 60.0         | 58       | 58        | 2.83 - 110.33  |
| Phenol-d5            | 31.6       | 31.7        | mg/L  | 1    | 60.0         | 53       | 53        | 0 - 82.08      |
| Nitrobenzene-d5      | 66.1       | 66.9        | mg/L  | 1    | 60.0         | 110      | 112       | 26.72 - 155    |
| 2-Fluorobiphenyl     | 65.7       | 65.3        | mg/L  | 1    | 60.0         | 110      | 109       | 35.89 - 150.5  |
| 2,4,6-Tribromophenol | 40.2       | 47.9        | mg/L  | 1    | 60.0         | 67       | 80        | 0 - 204.91     |
| Terphenyl-d14        | 86.3       | 84.2        | mg/L  | 1    | 60.0         | 144      | 140       | 33.98 - 168.85 |

Laboratory Control Spike (LCS-1) QC Batch: 2373

| Param       | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|-------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Silver | 1.39       | 1.37        | mg/L  | 1    | 1.25         | <0.00780      | 111  | 1   | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 2373

| Param         | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Arsenic  | 5.50       | 5.50        | mg/L  | 1    | 5.00         | <0.0590       | 110  | 0   | 75 - 125   | 20        |
| TCLP Barium   | 11.7       | 11.0        | mg/L  | 1    | 10.0         | <0.00340      | 117  | 6   | 75 - 125   | 20        |
| TCLP Cadmium  | 2.67       | 2.67        | mg/L  | 1    | 2.50         | <0.00270      | 107  | 0   | 75 - 125   | 20        |
| TCLP Chromium | 1.11       | 1.11        | mg/L  | 1    | 1.00         | <0.00660      | 111  | 0   | 75 - 125   | 20        |
| TCLP Lead     | 4.77       | 4.77        | mg/L  | 1    | 5.00         | <0.0370       | 95   | 0   | 75 - 125   | 20        |
| TCLP Selenium | 3.99       | 3.99        | mg/L  | 1    | 5.00         | <0.100        | 80   | 0   | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 2374

continued ...

<sup>4</sup>The average of the spike compound recoveries shows that the process is in control.

<sup>5</sup>The average of the spike compound recoveries shows that the process is in control.

<sup>6</sup>The average of the spike compound recoveries shows that the process is in control.

<sup>7</sup>The average of the spike compound recoveries shows that the process is in control.

matrix spikes continued ...

| Param                                                | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit    | RPD Limit |
|------------------------------------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|---------------|-----------|
| 2,4,5-Trichlorophenoxypropionic acid <sup>1213</sup> | 96.0      | 102        | mg/L  | 1    | 60.0         | 0             | 160  | 6   | 22.1 - 144.74 | 20        |
| Pentachlorophenol                                    | 66.4      | 65.7       | mg/L  | 1    | 60.0         | <3.04         | 111  | 1   | 0 - 156.72    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit     |
|----------------------|-----------|------------|-------|------|--------------|---------|----------|----------------|
| 2-Fluorophenol       | 34.4      | 34.9       | mg/L  | 1    | 60           | 57      | 58       | 2.83 - 110.33  |
| Phenol-d5            | 22.4      | 22.3       | mg/L  | 1    | 60           | 37      | 37       | 0 - 82.08      |
| Nitrobenzene-d5      | 73.6      | 74.2       | mg/L  | 1    | 60           | 123     | 124      | 26.72 - 155    |
| 2-Fluorobiphenyl     | 72.0      | 71.8       | mg/L  | 1    | 60           | 120     | 120      | 35.89 - 150.5  |
| 2,4,6-Tribromophenol | 45.6      | 47.8       | mg/L  | 1    | 60           | 76      | 80       | 0 - 204.91     |
| Terphenyl-d14        | 75.8      | 77.6       | mg/L  | 1    | 60           | 126     | 129      | 33.98 - 168.85 |

Matrix Spike (MS-1) QC Batch: 2373

| Param       | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|-------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Silver | 1.31      | 1.32       | mg/L  | 1    | 1.25         | <0.00780      | 105  | 1   | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2373

| Param         | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Arsenic  | 4.72      | 4.42       | mg/L  | 1    | 5.00         | <0.0590       | 94   | 6   | 75 - 125   | 20        |
| TCLP Barium   | 11.6      | 11.7       | mg/L  | 1    | 10.0         | 0.519         | 111  | 1   | 75 - 125   | 20        |
| TCLP Cadmium  | 2.70      | 2.72       | mg/L  | 1    | 2.50         | <0.00270      | 108  | 1   | 75 - 125   | 20        |
| TCLP Chromium | 1.09      | 1.11       | mg/L  | 1    | 1.00         | 0.02          | 107  | 2   | 75 - 125   | 20        |
| TCLP Lead     | 4.88      | 5.33       | mg/L  | 1    | 5.00         | 0.205         | 94   | 9   | 75 - 125   | 20        |
| TCLP Selenium | 4.69      | 4.18       | mg/L  | 1    | 5.00         | <0.100        | 94   | 11  | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2374

| Param                    | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Vinyl Chloride           | 3.91      | 4.02       | mg/L  | 50   | 0.100        | <0.00845      | 78   | 3   | 58 - 136   | 20        |
| 1,1-Dichloroethene       | 4.63      | 4.70       | mg/L  | 50   | 0.100        | <0.00790      | 93   | 2   | 81 - 125   | 20        |
| 2-Butanone (MEK)         | 3.99      | 3.98       | mg/L  | 50   | 0.100        | <0.0185       | 80   | 0   | 33 - 122   | 20        |
| Chloroform               | 5.16      | 5.26       | mg/L  | 50   | 0.100        | <0.00480      | 103  | 2   | 81 - 130   | 20        |
| 1,2-Dichloroethane (EDC) | 5.46      | 5.56       | mg/L  | 50   | 0.100        | <0.00470      | 109  | 2   | 76 - 137   | 20        |
| Benzene                  | 5.11      | 5.14       | mg/L  | 50   | 0.100        | <0.00520      | 102  | 0   | 88 - 121   | 20        |
| Carbon Tetrachloride     | 6.15      | 5.62       | mg/L  | 50   | 0.100        | <0.00390      | 123  | 9   | 56 - 156   | 20        |
| Trichloroethene (TCE)    | 4.81      | 4.83       | mg/L  | 50   | 0.100        | <0.00585      | 96   | 0   | 77 - 111   | 20        |
| Tetrachloroethene (PCE)  | 3.27      | 3.27       | mg/L  | 50   | 0.100        | <0.0205       | 65   | 0   | 48 - 80    | 20        |
| Chlorobenzene            | 4.91      | 4.93       | mg/L  | 50   | 0.100        | <0.00300      | 98   | 0   | 89 - 113   | 20        |

continued ...

<sup>12</sup>The average of the spike compound recoveries shows that the process is in control.

<sup>13</sup>The average of the spike compound recoveries shows that the process is in control.

control spikes continued ...

| Param                      | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit | RPD<br>Limit |
|----------------------------|---------------|----------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| Param                      | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit | RPD<br>Limit |
| Vinyl Chloride             | 3.47          | 3.47           | mg/L  | 50   | 0.100           | <0.00845         | 69   | 0   | 55 - 131      | 20           |
| 1,1-Dichloroethene         | 4.47          | 4.42           | mg/L  | 50   | 0.100           | <0.00790         | 89   | 1   | 81 - 119      | 20           |
| 2-Butanone (MEK)           | 5.61          | 5.81           | mg/L  | 50   | 0.100           | <0.0185          | 112  | 4   | 41 - 157      | 20           |
| Chloroform                 | 4.85          | 4.85           | mg/L  | 50   | 0.100           | <0.00480         | 97   | 0   | 79 - 126      | 20           |
| 1,2-Dichloroethane (EDC)   | 4.91          | 4.99           | mg/L  | 50   | 0.100           | <0.00470         | 98   | 2   | 72 - 131      | 20           |
| Benzene                    | 4.82          | 4.82           | mg/L  | 50   | 0.100           | <0.00520         | 96   | 0   | 87 - 118      | 20           |
| Carbon Tetrachloride       | 6.33          | 6.28           | mg/L  | 50   | 0.100           | <0.00390         | 127  | 1   | 43 - 162      | 20           |
| Trichloroethene (TCE)      | 4.78          | 4.74           | mg/L  | 50   | 0.100           | <0.00585         | 96   | 1   | 78 - 110      | 20           |
| Tetrachloroethene (PCE)    | 3.28          | 3.26           | mg/L  | 50   | 0.100           | <0.0205          | 66   | 1   | 48 - 81       | 20           |
| Chlorobenzene              | 4.77          | 4.82           | mg/L  | 50   | 0.100           | <0.00300         | 95   | 1   | 90 - 111      | 20           |
| 1,4-Dichlorobenzene (para) | 4.74          | 4.76           | mg/L  | 50   | 0.100           | <0.00425         | 95   | 0   | 81 - 115      | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Dibromofluoromethane         | 47.3          | 47.4           | mg/L  | 1    | 50.0            | 95          | 95           | 79 - 118      |
| Toluene-d8                   | 47.5          | 47.8           | mg/L  | 1    | 50.0            | 95          | 96           | 86 - 114      |
| 4-Bromofluorobenzene (4-BFB) | 48.8          | 48.9           | mg/L  | 1    | 50.0            | 98          | 98           | 79 - 116      |

Matrix Spike (MS-1) QC Batch: 2065

| Param                      | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit | RPD<br>Limit |
|----------------------------|--------------|---------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| TCLP Mercury <sup>89</sup> | 0.0445       | 0.0417        | mg/L  | 1    | 0.0500          | <0.000200        | 89   | 6   | 80 - 120      | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2133

| Param                          | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit  | RPD<br>Limit |
|--------------------------------|--------------|---------------|-------|------|-----------------|------------------|------|-----|----------------|--------------|
| Pyridine <sup>1011</sup>       | 35.5         | 33.0          | mg/L  | 1    | 60.0            | <2.41            | 59   | 7   | 12.6 - 50.02   | 20           |
| 1,4-Dichlorobenzene (para)     | 53.2         | 45.8          | mg/L  | 1    | 60.0            | <1.93            | 89   | 15  | 13.67 - 139.56 | 20           |
| o-Cresol                       | 43.6         | 42.6          | mg/L  | 1    | 60.0            | <1.46            | 73   | 2   | 18.58 - 114.05 | 20           |
| m,p-Cresol                     | 89.1         | 88.0          | mg/L  | 1    | 60.0            | <1.19            | 148  | 1   | 10.62 - 252.59 | 20           |
| Hexachloroethane               | 59.0         | 57.5          | mg/L  | 1    | 60.0            | <1.91            | 98   | 2   | 25.17 - 146.78 | 20           |
| Nitrobenzene                   | 66.7         | 66.8          | mg/L  | 1    | 60.0            | <1.50            | 111  | 0   | 26.78 - 144.08 | 20           |
| Hexachlorobutadiene            | 57.0         | 58.2          | mg/L  | 1    | 60.0            | <1.57            | 95   | 2   | 0 - 171.61     | 20           |
| 2,4,6-Trichlorophenol          | 63.1         | 62.6          | mg/L  | 1    | 60.0            | <1.64            | 105  | 1   | 19.23 - 144.93 | 20           |
| 2,4,5-Trichlorophenol          | 68.7         | 66.7          | mg/L  | 1    | 60.0            | <1.95            | 114  | 3   | 40.38 - 144.67 | 20           |
| 2,4-Dinitrotoluene             | 61.5         | 62.1          | mg/L  | 1    | 60.0            | <2.09            | 102  | 1   | 18.51 - 158.26 | 20           |
| 2,4-Dichlorophenoxyacetic acid | 90.7         | 91.7          | mg/L  | 1    | 60.0            | 0                | 151  | 1   | 0 - 165.81     | 20           |
| Hexachlorobenzene              | 66.4         | 66.9          | mg/L  | 1    | 60.0            | <1.63            | 111  | 1   | 2.35 - 182.77  | 20           |

continued ...

<sup>8</sup>Changed spike amount from 0.001 to 0.05 due to error in versalims spike amount

<sup>9</sup>Changed spike amount from 0.001 to 0.05 due to error in versalims spike amount

<sup>10</sup>The average of the spike compound recoveries shows that the process is in control.

<sup>11</sup>The average of the spike compound recoveries shows that the process is in control.

matrix spikes continued ...

| Param                      | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit | RPD<br>Limit |
|----------------------------|--------------|---------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| 1,4-Dichlorobenzene (para) | 4.84         | 4.84          | mg/L  | 50   | 0.100           | <0.00425         | 97   | 0   | 82 - 113      | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 49.3         | 49.1          | mg/L  | 1    | 50              | 99         | 98          | 79 - 118      |
| Toluene-d8                   | 48.5         | 48.4          | mg/L  | 1    | 50              | 97         | 97          | 86 - 114      |
| 4-Bromofluorobenzene (4-BFB) | 48.2         | 47.5          | mg/L  | 1    | 50              | 96         | 95          | 79 - 116      |

Standard (ICV-1) QC Batch: 2065

| Param        | Flag          | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|---------------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Mercury | <sup>14</sup> | mg/L  | 0.00500               | 0.00505                | 101                         | 90 - 110                      | 2003-06-06       |

Standard (CCV-1) QC Batch: 2065

| Param        | Flag          | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|---------------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Mercury | <sup>15</sup> | mg/L  | 0.00500               | 0.00508                | 102                         | 80 - 120                      | 2003-06-06       |

Standard (CCV-1) QC Batch: 2133

| Param                                | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Pyridine                             |      | mg/L  | 60.0                  | 58.8                   | 98                          | 80 - 120                      | 2003-06-09       |
| 1,4-Dichlorobenzene (para)           |      | mg/L  | 60.0                  | 62.6                   | 104                         | 80 - 120                      | 2003-06-09       |
| o-Cresol                             |      | mg/L  | 60.0                  | 64.1                   | 107                         | 80 - 120                      | 2003-06-09       |
| m,p-Cresol                           |      | mg/L  | 60.0                  | 62.8                   | 105                         | 80 - 120                      | 2003-06-09       |
| Hexachloroethane                     |      | mg/L  | 60.0                  | 65.0                   | 108                         | 80 - 120                      | 2003-06-09       |
| Nitrobenzene                         |      | mg/L  | 60.0                  | 67.3                   | 112                         | 80 - 120                      | 2003-06-09       |
| Hexachlorobutadiene                  |      | mg/L  | 60.0                  | 64.6                   | 108                         | 80 - 120                      | 2003-06-09       |
| 2,4,6-Trichlorophenol                |      | mg/L  | 60.0                  | 66.4                   | 111                         | 80 - 120                      | 2003-06-09       |
| 2,4,5-Trichlorophenol                |      | mg/L  | 60.0                  | 63.2                   | 105                         | 80 - 120                      | 2003-06-09       |
| 2,4-Dinitrotoluene                   |      | mg/L  | 60.0                  | 63.1                   | 105                         | 80 - 120                      | 2003-06-09       |
| 2,4-Dichlorophenoxyacetic acid       |      | mg/L  | 60.0                  | 58.7                   | 98                          | 80 - 120                      | 2003-06-09       |
| Hexachlorobenzene                    |      | mg/L  | 60.0                  | 65.1                   | 108                         | 80 - 120                      | 2003-06-09       |
| 2,4,5-Trichlorophenoxypropionic acid |      | mg/L  | 60.0                  | 65.6                   | 109                         | 80 - 120                      | 2003-06-09       |
| Pentachlorophenol                    |      | mg/L  | 60.0                  | 65.4                   | 109                         | 80 - 120                      | 2003-06-09       |

| Surrogate       | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|-----------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| 2-Fluorophenol  |      | 65.8   | mg/L  | 1        | 60.0            | 110                 | 80 - 120          |
| Phenol-d5       |      | 63.5   | mg/L  | 1        | 60.0            | 106                 | 80 - 120          |
| Nitrobenzene-d5 |      | 67.3   | mg/L  | 1        | 60.0            | 112                 | 80 - 120          |

continued ...

<sup>14</sup>Changed spike amount from 0.001 to 0.005 due to error in versalims spike amount

<sup>15</sup>Changed spike amount from 0.001 to 0.005 due to error in versalims spike amount

standard continued ...

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limit |
|----------------------|------|--------|-------|----------|--------------|------------------|----------------|
| 2-Fluorobiphenyl     |      | 62.5   | mg/L  | 1        | 60.0         | 104              | 80 - 120       |
| 2,4,6-Tribromophenol |      | 55.1   | mg/L  | 1        | 60.0         | 92               | 80 - 120       |
| Terphenyl-d14        |      | 60.1   | mg/L  | 1        | 60.0         | 100              | 80 - 120       |

Standard (ICV-1) QC Batch: 2373

| Param       | Flag          | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------------|---------------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| TCLP Silver | <sup>16</sup> | mg/L  | 0.125           | 0.131            | 105                   | 90 - 110                | 2003-06-05    |

Standard (ICV-1) QC Batch: 2373

| Param         | Flag          | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------|---------------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| TCLP Arsenic  |               | mg/L  | 1.00            | 1.05             | 105                   | 90 - 110                | 2003-06-05    |
| TCLP Barium   | <sup>17</sup> | mg/L  | 1.00            | 1.03             | 103                   | 90 - 110                | 2003-06-05    |
| TCLP Cadmium  | <sup>18</sup> | mg/L  | 1.00            | 1.01             | 101                   | 90 - 110                | 2003-06-05    |
| TCLP Chromium | <sup>19</sup> | mg/L  | 1.00            | 1.01             | 101                   | 90 - 110                | 2003-06-05    |
| TCLP Lead     |               | mg/L  | 1.00            | 0.989            | 99                    | 90 - 110                | 2003-06-05    |
| TCLP Selenium |               | mg/L  | 1.00            | 1.00             | 100                   | 90 - 110                | 2003-06-05    |

Standard (CCV-1) QC Batch: 2373

| Param       | Flag          | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------------|---------------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| TCLP Silver | <sup>20</sup> | mg/L  | 0.125           | 0.129            | 103                   | 90 - 110                | 2003-06-05    |

Standard (CCV-1) QC Batch: 2373

| Param         | Flag          | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------|---------------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| TCLP Arsenic  |               | mg/L  | 1.00            | 0.925            | 92                    | 90 - 110                | 2003-06-05    |
| TCLP Barium   | <sup>21</sup> | mg/L  | 1.00            | 1.03             | 103                   | 90 - 110                | 2003-06-05    |
| TCLP Cadmium  | <sup>22</sup> | mg/L  | 1.00            | 1.03             | 103                   | 90 - 110                | 2003-06-05    |
| TCLP Chromium | <sup>23</sup> | mg/L  | 1.00            | 1.01             | 101                   | 90 - 110                | 2003-06-05    |
| TCLP Lead     |               | mg/L  | 1.00            | 0.969            | 97                    | 90 - 110                | 2003-06-05    |
| TCLP Selenium |               | mg/L  | 1.00            | 0.970            | 97                    | 90 - 110                | 2003-06-05    |

Standard (CCV-1) QC Batch: 2374

<sup>16</sup>Changed spike amount from 0.25 to 0.125 due to concentration in spiking solution.

<sup>17</sup>Changed spike amount from 2 to 1 due to concentration in spiking solution.

<sup>18</sup>Changed spike amount from 0.5 to 1 due to concentration in spiking solution.

<sup>19</sup>Changed spike amount from 0.2 to 1 due to concentration in spiking solution.

<sup>20</sup>Changed spike amount from 0.25 to 0.125 due to concentration in spiking solution.

<sup>21</sup>Changed spike amount from 2 to 1 due to concentration in spiking solution.

<sup>22</sup>Changed spike amount from 0.5 to 1 due to concentration in spiking solution.

<sup>23</sup>Changed spike amount from 0.2 to 1 due to concentration in spiking solution.



| Param                      | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Vinyl Chloride             |      | mg/L  | 50.0                  | 41.0                   | 82                          | 80 - 120                      | 2003-06-16       |
| 1,1-Dichloroethene         |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-06-16       |
| 2-Butanone (MEK)           |      | mg/L  | 50.0                  | 45.0                   | 90                          | 80 - 120                      | 2003-06-16       |
| Chloroform                 |      | mg/L  | 50.0                  | 48.0                   | 96                          | 80 - 120                      | 2003-06-16       |
| 1,2-Dichloroethane (EDC)   |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-06-16       |
| Benzene                    |      | mg/L  | 50.0                  | 47.0                   | 94                          | 80 - 120                      | 2003-06-16       |
| Carbon Tetrachloride       | 24   | mg/L  | 50.0                  | 62.0                   | 124                         | 80 - 120                      | 2003-06-16       |
| Trichloroethene (TCE)      |      | mg/L  | 50.0                  | 49.0                   | 98                          | 80 - 120                      | 2003-06-16       |
| Tetrachloroethene (PCE)    | 25   | mg/L  | 50.0                  | 37.0                   | 74                          | 80 - 120                      | 2003-06-16       |
| Chlorobenzene              |      | mg/L  | 50.0                  | 47.0                   | 94                          | 80 - 120                      | 2003-06-16       |
| 1,4-Dichlorobenzene (para) |      | mg/L  | 50.0                  | 48.0                   | 96                          | 80 - 120                      | 2003-06-16       |

<sup>24</sup>average of all ccv analytes=94 which is within acceptable limits showing analysis to be in control.

<sup>25</sup>average of all ccv analytes=94 which is within acceptable limits showing analysis to be in control.



1625 N. Finch Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

NOV 7 2003

OIL CONSERVATION  
DIVISION

State of New Mexico

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                          | 4. Generator Navajo Refining         |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5. Originating Site Artesia Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6. Transporter D & J                 |
| 7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8. State New Mexico                  |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                      |

### BRIEF DESCRIPTION OF MATERIAL:

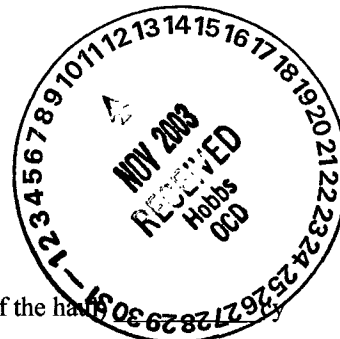
RE: 11-10-03C

Chloride Guard – used for air drying and separation of water and product.

Enclosed is analytical dated 09-26-03 and non-exempt waste form.

This Approval is good For one year or until 11/16/04  
mjk

Estimated Volume 3000 yards/year Known Volume (to be entered by the operator at the end of the haul)



SIGNATURE Kim Flowers  
Waste Management Facility Authorized Agent

TITLE: Rep DATE: 11-10-03

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

(This space for State Use)

APPROVED BY:

Paul Beaulieu

TITLE:

ENVIRONMENTAL ENGINEER

DATE:

11-12-03

APPROVED BY:

Monty J. Kelly

TITLE:

Environmental Geologist

DATE:

11/17/03

111703-2

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Chloride Guard Catalyst

ESTIMATED VOLUME: 3000 yards/ Year

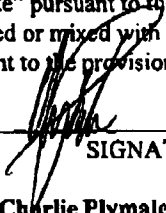
GENERATING PROCESS: Chloride guard catalyst from our CCR and Diesel Unit  
This is a clay catalyst used in air drying and also for separation of water and product.

REMARKS: This material has been approved in the past

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: D&J Waste Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT:   
SIGNATURE

NAME: Charlie Plymale  
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 2/6/03



## REFINING COMPANY

FAX

(505) 746-5283 DIV. ORDERS  
(505) 746-5481 TRUCKING  
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159  
TELEPHONE (505) 748-3311

FAX

(505) 746-5419 ACCOUNTING  
(505) 746-5451 EXEC/MKTG  
(505) 746-5421 ENGINEERING  
(505) 746-5480 PIPELINE

November 4, 2003

Ken Marsh  
CRI  
P.O. Box 388  
Hobbs, NM 88214

Ken,

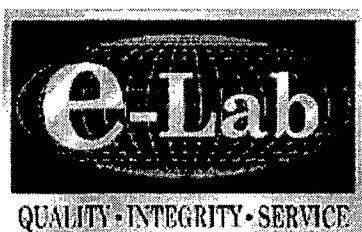
I would like to profile by process knowledge: (1) Asphalt sample cans that are RCRA clean. (2) Cooling tower sludge- which is blow sand and dirt that the wind blows into our cooling towers throughout the year at both the Artesia and Lovington Refineries. (3) Pipeline filters that the diesel that is ship from the refinery. (4) FCC cat fines that is a clay media used for air drying in our FCC Unit. All these materials have been approved in the passed and the process has not changed with any of these materials.

I would also like to renew our profile for our Chloride Guard catalysts. I have included the analytical for the Chloride Guard catalyst and analytical for the FCC cat fines.

If you have any question please feel free to call me at (505) 746-5241 or (505) 365-4298.

Sincerely,

Charlie Plymale  
Sr. Environmental Specialist



e-Lab, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5657

October 13, 2003

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

Tel: (505) 746-5468  
Fax: (505) 746-5421

Re: Artesia TCLP

Work Order : 0309259

Dear Charlie Plymale,

*Chloride Guard  
Analytical for Profile  
Only.*

e-Lab, Inc. received 2 samples on 9/26/2003 9:20:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 30.

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

Sincerely,

*Lora Terrill*

Electronically approved by: Lora Terrill

Lora Terrill  
VP Lab Operations

**e-Lab, Inc.**

**Date:** *October 13, 2003*

**CLIENT:** Navajo Refining Company

**Project:** Artesia TCLP

**Work Order:** 0309259

## Work Order Sample Summary

| <u>Lab Sample ID</u>  | <u>Client Sample ID</u> | <u>Matrix</u>   | <u>Tag Number</u> | <u>Collection Date</u>     | <u>Date Received</u>       | <u>Hold</u>                         |
|-----------------------|-------------------------|-----------------|-------------------|----------------------------|----------------------------|-------------------------------------|
| 0309259-01            | Chloride Guard          | Soil            |                   | 9/25/2003 10:00            | 9/26/2003 09:20            | <input type="checkbox"/>            |
| <del>0309259-02</del> | <del>NWAPI #1</del>     | <del>Soil</del> |                   | <del>9/25/2003 10:00</del> | <del>9/26/2003 09:20</del> | <del><input type="checkbox"/></del> |

## e-Lab, Inc.

Date: October 13, 2003

CLIENT: Navajo Refining Company  
 Work Order: 0309259  
 Project: Artesia TCLP  
 Lab ID: 0309259-01

Client Sample ID: Chloride Guard  
 Collection Date: 9/25/2003 10:00:00 AM  
 Matrix: SOIL

| Analyses                   | Result | Report Limit        | Qual | Units | Dilution Factor | Date Analyzed         |
|----------------------------|--------|---------------------|------|-------|-----------------|-----------------------|
| <b>TCLP MERCURY</b>        |        |                     |      |       |                 |                       |
|                            |        | <b>SW7470</b>       |      |       |                 |                       |
| Mercury                    | ND     | 0.00200             |      | mg/L  | 1               | 10/2/2003 6:40:47 PM  |
| <b>TCLP METALS, ICP</b>    |        |                     |      |       |                 |                       |
|                            |        | <b>SW1311/6020</b>  |      |       |                 |                       |
| Arsenic                    | ND     | 0.0500              |      | mg/L  | 10              | 10/12/2003 9:06:00 PM |
| Barium                     | 0.272  | 0.0500              |      | mg/L  | 10              | 10/12/2003 9:06:00 PM |
| Cadmium                    | ND     | 0.0500              |      | mg/L  | 10              | 10/12/2003 9:06:00 PM |
| Chromium                   | ND     | 0.0500              |      | mg/L  | 10              | 10/13/2003 1:16:00 PM |
| Lead                       | ND     | 0.0500              |      | mg/L  | 10              | 10/12/2003 9:06:00 PM |
| Selenium                   | ND     | 0.0500              |      | mg/L  | 10              | 10/12/2003 9:06:00 PM |
| Silver                     | ND     | 0.0500              |      | mg/L  | 10              | 10/12/2003 9:06:00 PM |
| <b>TCLP SEMIVOLATILES</b>  |        |                     |      |       |                 |                       |
|                            |        | <b>SW1311/8270</b>  |      |       |                 |                       |
| 2,4,5-Trichlorophenol      | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 7:51:00 PM  |
| 2,4,6-Trichlorophenol      | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 7:51:00 PM  |
| 2,4-Dinitrotoluene         | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 7:51:00 PM  |
| Cresols, Total             | ND     | 30                  |      | µg/L  | 1               | 10/2/2003 7:51:00 PM  |
| Hexachlorobenzene          | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 7:51:00 PM  |
| Hexachlorobutadiene        | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 7:51:00 PM  |
| Hexachloroethane           | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 7:51:00 PM  |
| Nitrobenzene               | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 7:51:00 PM  |
| Pentachlorophenol          | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 7:51:00 PM  |
| Pyridine                   | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 7:51:00 PM  |
| Surr: 2,4,6-Tribromophenol | 107    | 45-146              |      | %REC  | 1               | 10/2/2003 7:51:00 PM  |
| Surr: 2-Fluorobiphenyl     | 86.8   | 55-120              |      | %REC  | 1               | 10/2/2003 7:51:00 PM  |
| Surr: 2-Fluorophenol       | 39.4   | 21-110              |      | %REC  | 1               | 10/2/2003 7:51:00 PM  |
| Surr: 4-Terphenyl-d14      | 103    | 42-153              |      | %REC  | 1               | 10/2/2003 7:51:00 PM  |
| Surr: Nitrobenzene-d5      | 84.1   | 51-117              |      | %REC  | 1               | 10/2/2003 7:51:00 PM  |
| Surr: Phenol-d6            | 25.6   | 10-110              |      | %REC  | 1               | 10/2/2003 7:51:00 PM  |
| <b>TCLP VOLATILES</b>      |        |                     |      |       |                 |                       |
|                            |        | <b>SW1311/8260B</b> |      |       |                 |                       |
| 1,1-Dichloroethene         | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 4:43:00 AM  |
| 1,2-Dichloroethane         | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 4:43:00 AM  |
| 1,4-Dichlorobenzene        | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 4:43:00 AM  |
| 2-Butanone                 | ND     | 200                 |      | µg/L  | 20              | 10/3/2003 4:43:00 AM  |
| Benzene                    | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 4:43:00 AM  |
| Carbon tetrachloride       | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 4:43:00 AM  |
| Chlorobenzene              | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 4:43:00 AM  |
| Chloroform                 | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 4:43:00 AM  |
| Tetrachloroethene          | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 4:43:00 AM  |
| Trichloroethene            | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 4:43:00 AM  |
| Vinyl chloride             | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 4:43:00 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

AR Page 1 of 4



**e-Lab, Inc.**

Date: October 13, 2003

**CLIENT:** Navajo Refining Company  
**Work Order:** 0309259  
**Project:** Artesia TCLP  
**Lab ID:** 0309259-01

**Client Sample ID:** Chloride Guard  
**Collection Date:** 9/25/2003 10:00:00 AM  
**Matrix:** SOIL

| Analyses                             | Result | Report Limit | Qual | Units    | Dilution Factor | Date Analyzed             |
|--------------------------------------|--------|--------------|------|----------|-----------------|---------------------------|
| Surr: 1,2-Dichloroethane-d4          | 92.5   | 70-130       |      | %REC     | 20              | 10/3/2003 4:43:00 AM      |
| Surr: 4-Bromofluorobenzene           | 96.0   | 70-130       |      | %REC     | 20              | 10/3/2003 4:43:00 AM      |
| Surr: Dibromofluoromethane           | 96.5   | 70-130       |      | %REC     | 20              | 10/3/2003 4:43:00 AM      |
| Surr: Toluene-d8                     | 93.5   | 70-130       |      | %REC     | 20              | 10/3/2003 4:43:00 AM      |
| <b>CYANIDE, REACTIVE</b>             |        |              |      |          |                 |                           |
| Reactive Cyanide                     | ND     | 0.500        |      | mg/Kg    | 1               | Analyst: MAM<br>10/2/2003 |
| <b>SULFIDE, REACTIVE</b>             |        |              |      |          |                 |                           |
| Reactive Sulfide                     | ND     | 40.0         |      | mg/Kg    | 1               | Analyst: MAM<br>10/7/2003 |
| <b>IGNITABILITY FOR SOLIDS</b>       |        |              |      |          |                 |                           |
|                                      |        |              |      |          |                 | Analyst: MG               |
| Burns vigorously and persistently    | No     |              |      |          | 1               | 9/29/2003                 |
| Ignites spontaneously                | No     |              |      |          | 1               | 9/29/2003                 |
| Ignites through friction             | No     |              |      |          | 1               | 9/29/2003                 |
| Ignites under std. temp and pressure | No     |              |      |          | 1               | 9/29/2003                 |
| Ignites with moisture                | No     |              |      |          | 1               | 9/29/2003                 |
| <b>PH IN SOLID</b>                   |        |              |      |          |                 |                           |
| pH                                   | 11.6   | 0.100        |      | pH Units | 1               | Analyst: MG<br>9/29/2003  |

**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, Inc.**
**Date:** October 13, 2003

**CLIENT:** Navajo Refining Company  
**Work Order:** 0309259  
**Project:** Artesia TCLP  
**Lab ID:** 0309259-02

**Client Sample ID:** NWAPI #1  
**Collection Date:** 9/25/2003 10:00:00 AM  
**Matrix:** SOIL

| Analyses                   | Result | Report Limit        | Qual | Units | Dilution Factor | Date Analyzed                                              |
|----------------------------|--------|---------------------|------|-------|-----------------|------------------------------------------------------------|
| <b>TCLP MERCURY</b>        |        |                     |      |       |                 |                                                            |
|                            |        | <b>SW7470</b>       |      |       |                 |                                                            |
| Mercury                    | ND     | 0.00200             |      | mg/L  | 1               | Prep Date: 10/2/2003 Analyst: JCJ<br>10/2/2003 6:46:55 PM  |
| <b>TCLP METALS, ICP</b>    |        |                     |      |       |                 |                                                            |
|                            |        | <b>SW1311/6020</b>  |      |       |                 |                                                            |
| Arsenic                    | ND     | 0.0500              |      | mg/L  | 10              | Prep Date: 10/1/2003 Analyst: ALR<br>10/12/2003 9:10:00 PM |
| Barium                     | 0.205  | 0.0500              |      | mg/L  | 10              | 10/12/2003 9:10:00 PM                                      |
| Cadmium                    | ND     | 0.0500              |      | mg/L  | 10              | 10/12/2003 9:10:00 PM                                      |
| Chromium                   | ND     | 0.0500              |      | mg/L  | 10              | 10/13/2003 1:21:00 PM                                      |
| Lead                       | ND     | 0.0500              |      | mg/L  | 10              | 10/12/2003 9:10:00 PM                                      |
| Selenium                   | 0.206  | 0.0500              |      | mg/L  | 10              | 10/12/2003 9:10:00 PM                                      |
| Silver                     | ND     | 0.0500              |      | mg/L  | 10              | 10/12/2003 9:10:00 PM                                      |
| <b>TCLP SEMIVOLATILES</b>  |        |                     |      |       |                 |                                                            |
|                            |        | <b>SW1311/8270</b>  |      |       |                 |                                                            |
| 2,4,5-Trichlorophenol      | ND     | 10                  |      | µg/L  | 1               | Prep Date: 10/2/2003 Analyst: RKG<br>10/2/2003 8:18:00 PM  |
| 2,4,6-Trichlorophenol      | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 8:18:00 PM                                       |
| 2,4-Dinitrotoluene         | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 8:18:00 PM                                       |
| Cresols, Total             | 47     | 30                  |      | µg/L  | 1               | 10/2/2003 8:18:00 PM                                       |
| Hexachlorobenzene          | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 8:18:00 PM                                       |
| Hexachlorobutadiene        | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 8:18:00 PM                                       |
| Hexachloroethane           | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 8:18:00 PM                                       |
| Nitrobenzene               | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 8:18:00 PM                                       |
| Pentachlorophenol          | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 8:18:00 PM                                       |
| Pyridine                   | ND     | 10                  |      | µg/L  | 1               | 10/2/2003 8:18:00 PM                                       |
| Surr: 2,4,6-Tribromophenol | 114    | 45-146              |      | %REC  | 1               | 10/2/2003 8:18:00 PM                                       |
| Surr: 2-Fluorobiphenyl     | 91.6   | 55-120              |      | %REC  | 1               | 10/2/2003 8:18:00 PM                                       |
| Surr: 2-Fluorophenol       | 28.3   | 21-110              |      | %REC  | 1               | 10/2/2003 8:18:00 PM                                       |
| Surr: 4-Terphenyl-d14      | 107    | 42-153              |      | %REC  | 1               | 10/2/2003 8:18:00 PM                                       |
| Surr: Nitrobenzene-d5      | 89.2   | 51-117              |      | %REC  | 1               | 10/2/2003 8:18:00 PM                                       |
| Surr: Phenol-d6            | 25.8   | 10-110              |      | %REC  | 1               | 10/2/2003 8:18:00 PM                                       |
| <b>TCLP VOLATILES</b>      |        |                     |      |       |                 |                                                            |
|                            |        | <b>SW1311/8260B</b> |      |       |                 |                                                            |
| 1,1-Dichloroethene         | ND     | 100                 |      | µg/L  | 20              | Prep Date: 9/29/2003 Analyst: PC<br>10/3/2003 5:10:00 AM   |
| 1,2-Dichloroethane         | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 5:10:00 AM                                       |
| 1,4-Dichlorobenzene        | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 5:10:00 AM                                       |
| 2-Butanone                 | ND     | 200                 |      | µg/L  | 20              | 10/3/2003 5:10:00 AM                                       |
| Benzene                    | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 5:10:00 AM                                       |
| Carbon tetrachloride       | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 5:10:00 AM                                       |
| Chlorobenzene              | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 5:10:00 AM                                       |
| Chloroform                 | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 5:10:00 AM                                       |
| Tetrachloroethene          | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 5:10:00 AM                                       |
| Trichloroethene            | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 5:10:00 AM                                       |
| Vinyl chloride             | ND     | 100                 |      | µg/L  | 20              | 10/3/2003 5:10:00 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, Inc.**

Date: October 13, 2003

**CLIENT:** Navajo Refining Company  
**Work Order:** 0309259  
**Project:** Artesia TCLP  
**Lab ID:** 0309259-02

**Client Sample ID:** NWAPI #1  
**Collection Date:** 9/25/2003 10:00:00 AM  
**Matrix:** SOIL

| Analyses                             | Result | Report<br>Limit           | Qual | Units    | Dilution<br>Factor | Date Analyzed        |
|--------------------------------------|--------|---------------------------|------|----------|--------------------|----------------------|
| Surr: 1,2-Dichloroethane-d4          | 90.1   | 70-130                    |      | %REC     | 20                 | 10/3/2003 5:10:00 AM |
| Surr: 4-Bromofluorobenzene           | 92.2   | 70-130                    |      | %REC     | 20                 | 10/3/2003 5:10:00 AM |
| Surr: Dibromofluoromethane           | 94.5   | 70-130                    |      | %REC     | 20                 | 10/3/2003 5:10:00 AM |
| Surr: Toluene-d8                     | 94.4   | 70-130                    |      | %REC     | 20                 | 10/3/2003 5:10:00 AM |
| <b>CYANIDE, REACTIVE</b>             |        | <b>SW-846</b>             |      |          |                    | Analyst: <b>MAM</b>  |
| Reactive Cyanide                     | ND     | 0.500                     |      | mg/Kg    | 1                  | 10/2/2003            |
| <b>SULFIDE, REACTIVE</b>             |        | <b>SW-846</b>             |      |          |                    | Analyst: <b>MAM</b>  |
| Reactive Sulfide                     | ND     | 40.0                      |      | mg/Kg    | 1                  | 10/7/2003            |
| <b>IGNITABILITY FOR SOLIDS</b>       |        | <b>SW846, CHPT. 7.1.2</b> |      |          |                    | Analyst: <b>MG</b>   |
| Burns vigorously and persistently    | No     |                           |      |          | 1                  | 9/29/2003            |
| Ignites spontaneously                | No     |                           |      |          | 1                  | 9/29/2003            |
| Ignites through friction             | No     |                           |      |          | 1                  | 9/29/2003            |
| Ignites under std. temp and pressure | No     |                           |      |          | 1                  | 9/29/2003            |
| Ignites with moisture                | No     |                           |      |          | 1                  | 9/29/2003            |
| <b>PH IN SOLID</b>                   |        | <b>SW9045B</b>            |      |          |                    | Analyst: <b>MG</b>   |
| pH                                   | 8.51   | 0.100                     |      | pH Units | 1                  | 9/29/2003            |

**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, Inc.

Date: Oct 13 2003

CLIENT: Navajo Refining Company

## QC BATCH REPORT

Work Order: 0309259

Project: Artesia TCLP

Batch ID: 6787 InstrumentID: ICP4500

MBLK Sample ID: MBLKW1-100103 Test Code: SW1311/6020 Units: mg/L Analysis Date: 10/12/03 20:57

Client ID: Run ID: ICP4500\_031012A SeqNo: 379028 Prep Date: 10/1/2003 DF: 10

| Analyte  | Result  | PQL   | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------|---------|-------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Arsenic  | 0.01977 | 0.050 |         |               |      |               |               |      |           | J    |
| Barium   | ND      | 0.050 |         |               |      |               |               |      |           |      |
| Cadmium  | ND      | 0.050 |         |               |      |               |               |      |           |      |
| Lead     | ND      | 0.050 |         |               |      |               |               |      |           |      |
| Selenium | ND      | 0.050 |         |               |      |               |               |      |           |      |
| Silver   | ND      | 0.050 |         |               |      |               |               |      |           |      |

MBLK Sample ID: MBLKT1-092903 Test Code: SW1311/6020 Units: mg/L Analysis Date: 10/12/03 22:23

Client ID: Run ID: ICP4500\_031012A SeqNo: 379041 Prep Date: 10/1/2003 DF: 10

| Analyte  | Result   | PQL   | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------|----------|-------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Arsenic  | ND       | 0.050 |         |               |      |               |               |      |           |      |
| Barium   | ND       | 0.050 |         |               |      |               |               |      |           |      |
| Cadmium  | ND       | 0.050 |         |               |      |               |               |      |           |      |
| Chromium | 0.007384 | 0.050 |         |               |      |               |               |      |           | J    |
| Lead     | ND       | 0.050 |         |               |      |               |               |      |           |      |
| Selenium | ND       | 0.050 |         |               |      |               |               |      |           |      |
| Silver   | ND       | 0.050 |         |               |      |               |               |      |           |      |

MBLK Sample ID: MBLKW1-100103 Test Code: SW1311/6020 Units: mg/L Analysis Date: 10/13/03 13:06

Client ID: Run ID: ICP4500\_031013A SeqNo: 379310 Prep Date: 10/1/2003 DF: 10

| Analyte  | Result | PQL   | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------|--------|-------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chromium | ND     | 0.050 |         |               |      |               |               |      |           |      |

LCS Sample ID: MLCSW1-100103 Test Code: SW1311/6020 Units: mg/L Analysis Date: 10/12/03 21:01

Client ID: Run ID: ICP4500\_031012A SeqNo: 379029 Prep Date: 10/1/2003 DF: 10

| Analyte  | Result | PQL   | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------|--------|-------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Arsenic  | 0.2303 | 0.050 | 0.2     | 0             | 115  | 80-120        | 0             |      |           |      |
| Barium   | 0.1814 | 0.050 | 0.2     | 0             | 90.7 | 80-120        | 0             |      |           |      |
| Cadmium  | 0.1785 | 0.050 | 0.2     | 0             | 89.2 | 80-120        | 0             |      |           |      |
| Lead     | 0.1794 | 0.050 | 0.2     | 0             | 89.7 | 80-120        | 0             |      |           |      |
| Selenium | 0.2273 | 0.050 | 0.2     | 0             | 114  | 80-120        | 0             |      |           |      |
| Silver   | 0.1894 | 0.050 | 0.2     | 0             | 94.7 | 80-120        | 0             |      |           |      |

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is &gt; 4 times amount spiked

P - Dual Column results percent difference &gt; 40%

E - Value above quantitation range

**CLIENT:** Navajo Refining Company  
**Work Order:** 0309259  
**Project:** Artesia TCLP

## QC BATCH REPORT

Batch ID: 6787      InstrumentID: ICP4500

**LCS**      Sample ID: MLC5W1-100103      Test Code: SW1311/6020      Units: mg/L      Analysis Date: 10/13/03 13:11

Client ID:      Run ID: ICP4500\_031013A      SeqNo: 379311      Prep Date: 10/1/2003      DF: 10

| Analyte  | Result | PQL   | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------|--------|-------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chromium | 0.1904 | 0.050 | 0.2     | 0             | 95.2 | 80-120        | 0             |      |           |      |

**MS**      Sample ID: 0309259-02AMS      Test Code: SW1311/6020      Units: mg/L      Analysis Date: 10/12/03 21:19

Client ID: NWAPI #1      Run ID: ICP4500\_031012A      SeqNo: 379033      Prep Date: 10/1/2003      DF: 10

| Analyte  | Result | PQL   | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------|--------|-------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Arsenic  | 0.1735 | 0.050 | 0.2     | 0.02852       | 72.5 | 75-125        | 0             |      |           | S    |
| Barium   | 0.357  | 0.050 | 0.2     | 0.2052        | 75.9 | 75-125        | 0             |      |           |      |
| Cadmium  | 0.139  | 0.050 | 0.2     | 0.00002573    | 69.5 | 75-125        | 0             |      |           | S    |
| Lead     | 0.1487 | 0.050 | 0.2     | -0.0003895    | 74.5 | 75-125        | 0             |      |           | S    |
| Selenium | 0.3436 | 0.050 | 0.2     | 0.2064        | 68.6 | 75-125        | 0             |      |           | S    |
| Silver   | 0.1397 | 0.050 | 0.2     | -0.0001981    | 69.9 | 75-125        | 0             |      |           | S    |

**MS**      Sample ID: 0309259-02AMS      Test Code: SW1311/6020      Units: mg/L      Analysis Date: 10/13/03 13:32

Client ID: NWAPI #1      Run ID: ICP4500\_031013A      SeqNo: 379349      Prep Date: 10/1/2003      DF: 10

| Analyte  | Result | PQL   | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------|--------|-------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chromium | 0.1893 | 0.050 | 0.2     | 0.02449       | 82.4 | 75-125        | 0             |      |           |      |

**MSD**      Sample ID: 0309259-02AMSD      Test Code: SW1311/6020      Units: mg/L      Analysis Date: 10/12/03 21:23

Client ID: NWAPI #1      Run ID: ICP4500\_031012A      SeqNo: 379034      Prep Date: 10/1/2003      DF: 10

| Analyte  | Result | PQL   | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------|--------|-------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Arsenic  | 0.1598 | 0.050 | 0.2     | 0.02852       | 65.6 | 75-125        | 0.1735        | 8.22  | 25        | S    |
| Barium   | 0.3552 | 0.050 | 0.2     | 0.2052        | 75   | 75-125        | 0.357         | 0.505 | 25        |      |
| Cadmium  | 0.1323 | 0.050 | 0.2     | 0.00002573    | 66.1 | 75-125        | 0.139         | 4.94  | 25        | S    |
| Lead     | 0.1396 | 0.050 | 0.2     | -0.0003895    | 70   | 75-125        | 0.1487        | 6.31  | 25        | S    |
| Selenium | 0.3095 | 0.050 | 0.2     | 0.2064        | 51.6 | 75-125        | 0.3436        | 10.4  | 25        | S    |
| Silver   | 0.1325 | 0.050 | 0.2     | -0.0001981    | 66.3 | 75-125        | 0.1397        | 5.29  | 25        | S    |

**MSD**      Sample ID: 0309259-02AMSD      Test Code: SW1311/6020      Units: mg/L      Analysis Date: 10/13/03 13:45

Client ID: NWAPI #1      Run ID: ICP4500\_031013A      SeqNo: 379352      Prep Date: 10/1/2003      DF: 10

| Analyte  | Result | PQL   | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------|--------|-------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chromium | 0.172  | 0.050 | 0.2     | 0.02449       | 73.8 | 75-125        | 0.1893        | 9.58 | 25        | S    |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

**CLIENT:** Navajo Refining Company  
**Work Order:** 0309259  
**Project:** Artesia TCLP

## QC BATCH REPORT

Batch ID: 6787      InstrumentID: ICP4500

DUP      Sample ID: 0309259-02ADUP      Test Code: SW1311/6020      Units: mg/L      Analysis Date: 10/12/03 21:15

Client ID: NWAPI #1      Run ID: ICP4500\_031012A      SeqNo: 379032      Prep Date: 10/1/2003      DF: 10

| Analyte  | Result  | PQL   | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------|---------|-------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Arsenic  | 0.03642 | 0.050 | 0       | 0             | 0    | 0-0           | 0.02852       | 0    | 25        | J    |
| Barium   | 0.1948  | 0.050 | 0       | 0             | 0    | 0-0           | 0.2052        | 5.2  | 25        |      |
| Cadmium  | ND      | 0.050 | 0       | 0             | 0    | 0-0           | 0.00002573    | 0    | 25        |      |
| Lead     | ND      | 0.050 | 0       | 0             | 0    | 0-0           | -0.0003895    | 0    | 25        |      |
| Selenium | 0.1899  | 0.050 | 0       | 0             | 0    | 0-0           | 0.2064        | 8.33 | 25        |      |
| Silver   | ND      | 0.050 | 0       | 0             | 0    | 0-0           | -0.0001981    | 0    | 25        |      |

DUP      Sample ID: 0309259-02ADUP      Test Code: SW1311/6020      Units: mg/L      Analysis Date: 10/13/03 13:27

Client ID: NWAPI #1      Run ID: ICP4500\_031013A      SeqNo: 379314      Prep Date: 10/1/2003      DF: 10

| Analyte  | Result  | PQL   | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------|---------|-------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Chromium | 0.02708 | 0.050 | 0       | 0             | 0    | 0-0           | 0.02449       | 0    | 25        | J    |

The following samples were analyzed in this batch:

0309259-01A      0309259-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

**CLIENT:** Navajo Refining Company  
**Work Order:** 0309259  
**Project:** Artesia TCLP

## QC BATCH REPORT

Batch ID: 6807 InstrumentID: Mercury

MBLK Sample ID: GBLKW1-100203 Test Code: SW7470 Units: mg/L Analysis Date: 10/02/03 17:58

Client ID: Run ID: MERCURY\_031002A SeqNo: 374749 Prep Date: 10/2/2003 DF: 1

| Analyte | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Mercury | ND     | 0.0020 |         |               |      |               |               |      |           |      |

MBLK Sample ID: GBLKT1-100103 Test Code: SW7470 Units: mg/L Analysis Date: 10/02/03 18:08

Client ID: Run ID: MERCURY\_031002A SeqNo: 374752 Prep Date: 10/2/2003 DF: 1

| Analyte | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Mercury | ND     | 0.0020 | 0       | 0             | 0    | 0-0           | 0             |      |           |      |

MBLK Sample ID: GBLKT2-100103 Test Code: SW7470 Units: mg/L Analysis Date: 10/02/03 18:13

Client ID: Run ID: MERCURY\_031002A SeqNo: 374754 Prep Date: 10/2/2003 DF: 1

| Analyte | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Mercury | ND     | 0.0020 | 0       | 0             | 0    | 0-0           | 0             |      |           |      |

LCS Sample ID: GLCSW1-100203 Test Code: SW7470 Units: mg/L Analysis Date: 10/02/03 18:00

Client ID: Run ID: MERCURY\_031002A SeqNo: 374750 Prep Date: 10/2/2003 DF: 1

| Analyte | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Mercury | 0.00508 | 0.0020 | 0.005   | 0             | 102  | 80-120        | 0             |      |           |      |

LCS Sample ID: GLCST1-100103 Test Code: SW7470 Units: mg/L Analysis Date: 10/02/03 18:11

Client ID: Run ID: MERCURY\_031002A SeqNo: 374753 Prep Date: 10/2/2003 DF: 1

| Analyte | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Mercury | 0.00531 | 0.0020 | 0.005   | 0             | 106  | 80-120        | 0             |      |           |      |

LCS Sample ID: GLCST2-100103 Test Code: SW7470 Units: mg/L Analysis Date: 10/02/03 18:17

Client ID: Run ID: MERCURY\_031002A SeqNo: 374755 Prep Date: 10/2/2003 DF: 1

| Analyte | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Mercury | 0.00523 | 0.0020 | 0.005   | 0             | 105  | 80-120        | 0             |      |           |      |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company  
 Work Order: 0309259  
 Project: Artesia TCLP

## QC BATCH REPORT

Batch ID: 6807 InstrumentID: Mercury

LCSD Sample ID: GLCSDW1-100203 Test Code: SW7470 Units: mg/L Analysis Date: 10/02/03 18:04

Client ID: Run ID: MERCURY\_031002A SeqNo: 374751 Prep Date: 10/2/2003 DF: 1

| Analyte | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Mercury | 0.00535 | 0.0020 | 0.005   | 0             | 107  | 80-120        | 0.00508       | 5.18 | 25        |      |

MS Sample ID: 0309229-01BMS Test Code: SW7470 Units: mg/L Analysis Date: 10/02/03 18:32

Client ID: Run ID: MERCURY\_031002A SeqNo: 374760 Prep Date: 10/2/2003 DF: 1

| Analyte | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Mercury | 0.00559 | 0.0020 | 0.005   | -0.000047     | 113  | 75-125        | 0             |      |           |      |

MS Sample ID: 0309259-01AMS Test Code: SW7470 Units: mg/L Analysis Date: 10/02/03 18:43

Client ID: ChlorideGuard Run ID: MERCURY\_031002A SeqNo: 374764 Prep Date: 10/2/2003 DF: 1

| Analyte | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Mercury | 0.00517 | 0.0020 | 0.005   | -0.000032     | 104  | 75-125        | 0             |      |           |      |

MSD Sample ID: 0309229-01BMSD Test Code: SW7470 Units: mg/L Analysis Date: 10/02/03 18:37

Client ID: Run ID: MERCURY\_031002A SeqNo: 374761 Prep Date: 10/2/2003 DF: 1

| Analyte | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Mercury | 0.00572 | 0.0020 | 0.005   | -0.000047     | 115  | 75-125        | 0.00559       | 2.3  | 20        |      |

MSD Sample ID: 0309259-01AMSD Test Code: SW7470 Units: mg/L Analysis Date: 10/02/03 18:45

Client ID: ChlorideGuard Run ID: MERCURY\_031002A SeqNo: 374765 Prep Date: 10/2/2003 DF: 1

| Analyte | Result  | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Mercury | 0.00475 | 0.0020 | 0.005   | -0.000032     | 95.6 | 75-125        | 0.00517       | 8.47 | 20        |      |

DUP Sample ID: 0309229-01BDUP Test Code: SW7470 Units: mg/L Analysis Date: 10/02/03 18:28

Client ID: Run ID: MERCURY\_031002A SeqNo: 374759 Prep Date: 10/2/2003 DF: 1

| Analyte | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Mercury | ND     | 0.0020 | 0       | 0             | 0    | 0-0           | -0.000047     | 0    | 20        |      |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



CLIENT: Navajo Refining Company  
Work Order: 0309259  
Project: Artesia TCLP

## QC BATCH REPORT

Batch ID: 6807 InstrumentID: Mercury

DUP Sample ID: 0309259-01ADUP Test Code: SW7470 Units: mg/L Analysis Date: 10/02/03 18:42

Client ID: ChlorideGuard Run ID: MERCURY\_031002A SeqNo: 374763 Prep Date: 10/2/2003 DF: 1

| Analyte | Result | PQL    | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Mercury | ND     | 0.0020 | 0       | 0             | 0    | 0-0           | -0.000032     | 0    | 20        |      |

The following samples were analyzed in this batch:

0309259-01A 0309259-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company  
 Work Order: 0309259  
 Project: Artesia TCLP

## QC BATCH REPORT

Batch ID: 6806 InstrumentID: SV-3

MBLK Sample ID: SBLK1T1-031002 Test Code: SW1311/8270 Units: µg/L Analysis Date: 10/02/03 14:26

Client ID: Run ID: SV-3\_031002A SeqNo: 374916 Prep Date: 10/2/2003 DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| 2,4,5-Trichlorophenol      | ND     | 10  |         |               |      |               |               |      |           |      |
| 2,4,6-Trichlorophenol      | ND     | 10  |         |               |      |               |               |      |           |      |
| 2,4-Dinitrotoluene         | ND     | 10  |         |               |      |               |               |      |           |      |
| Cresols, Total             | ND     | 30  |         |               |      |               |               |      |           |      |
| Hexachlorobenzene          | ND     | 10  |         |               |      |               |               |      |           |      |
| Hexachlorobutadiene        | ND     | 10  |         |               |      |               |               |      |           |      |
| Hexachloroethane           | ND     | 10  |         |               |      |               |               |      |           |      |
| Nitrobenzene               | ND     | 10  |         |               |      |               |               |      |           |      |
| Pentachlorophenol          | ND     | 10  |         |               |      |               |               |      |           |      |
| Pyridine                   | ND     | 10  |         |               |      |               |               |      |           |      |
| Surr: 2,4,6-Tribromophenol | 99.64  | 10  | 100     | 0             | 99.6 | 45-146        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl     | 90.35  | 10  | 100     | 0             | 90.4 | 55-120        | 0             |      |           |      |
| Surr: 2-Fluorophenol       | 45.24  | 10  | 100     | 0             | 45.2 | 21-110        | 0             |      |           |      |
| Surr: 4-Terphenyl-d14      | 106    | 10  | 100     | 0             | 106  | 42-153        | 0             |      |           |      |
| Surr: Nitrobenzene-d5      | 89.46  | 10  | 100     | 0             | 89.5 | 51-117        | 0             |      |           |      |
| Surr: Phenol-d6            | 26.72  | 10  | 100     | 0             | 26.7 | 10-110        | 0             |      |           |      |

MBLK Sample ID: SBLK2T1-031002 Test Code: SW1311/8270 Units: µg/L Analysis Date: 10/02/03 15:47

Client ID: Run ID: SV-3\_031002A SeqNo: 374921 Prep Date: 10/2/2003 DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| 2,4,5-Trichlorophenol      | ND     | 10  |         |               |      |               |               |      |           |      |
| 2,4,6-Trichlorophenol      | ND     | 10  |         |               |      |               |               |      |           |      |
| 2,4-Dinitrotoluene         | ND     | 10  |         |               |      |               |               |      |           |      |
| Cresols, Total             | ND     | 30  |         |               |      |               |               |      |           |      |
| Hexachlorobenzene          | ND     | 10  |         |               |      |               |               |      |           |      |
| Hexachlorobutadiene        | ND     | 10  |         |               |      |               |               |      |           |      |
| Hexachloroethane           | ND     | 10  |         |               |      |               |               |      |           |      |
| Nitrobenzene               | ND     | 10  |         |               |      |               |               |      |           |      |
| Pentachlorophenol          | ND     | 10  |         |               |      |               |               |      |           |      |
| Pyridine                   | ND     | 10  |         |               |      |               |               |      |           |      |
| Surr: 2,4,6-Tribromophenol | 99.55  | 10  | 100     | 0             | 99.6 | 45-146        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl     | 88.51  | 10  | 100     | 0             | 88.5 | 55-120        | 0             |      |           |      |
| Surr: 2-Fluorophenol       | 50.67  | 10  | 100     | 0             | 50.7 | 21-110        | 0             |      |           |      |
| Surr: 4-Terphenyl-d14      | 111    | 10  | 100     | 0             | 111  | 42-153        | 0             |      |           |      |
| Surr: Nitrobenzene-d5      | 87.85  | 10  | 100     | 0             | 87.9 | 51-117        | 0             |      |           |      |
| Surr: Phenol-d6            | 31.58  | 10  | 100     | 0             | 31.6 | 10-110        | 0             |      |           |      |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company  
 Work Order: 0309259  
 Project: Artesia TCLP

## QC BATCH REPORT

Batch ID: 6806 InstrumentID: SV-3

LCS Sample ID: SLCST1-031002 Test Code: SW1311/8270 Units: µg/L Analysis Date: 10/02/03 14:53

Client ID: Run ID: SV-3\_031002A SeqNo: 374917 Prep Date: 10/2/2003 DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| 2,4,5-Trichlorophenol      | 55.84  | 10  | 50      | 0             | 112  | 48-119        | 0             |      |           |      |
| 2,4,6-Trichlorophenol      | 54.73  | 10  | 50      | 0             | 109  | 52-119        | 0             |      |           |      |
| 2,4-Dinitrotoluene         | 47.02  | 10  | 50      | 0             | 94   | 46-114        | 0             |      |           |      |
| Cresols, Total             | 119.7  | 30  | 150     | 0             | 79.8 | 35-100        | 0             |      |           |      |
| Hexachlorobenzene          | 25.58  | 10  | 50      | 0             | 51.2 | 25-84         | 0             |      |           |      |
| Hexachlorobutadiene        | 57.33  | 10  | 50      | 0             | 115  | 47-120        | 0             |      |           |      |
| Hexachloroethane           | 52.83  | 10  | 50      | 0             | 106  | 47-113        | 0             |      |           |      |
| Nitrobenzene               | 51.11  | 10  | 50      | 0             | 102  | 55-111        | 0             |      |           |      |
| Pentachlorophenol          | 57.01  | 10  | 50      | 0             | 114  | 36-120        | 0             |      |           |      |
| Pyridine                   | 25.41  | 10  | 50      | 0             | 50.8 | 17-80         | 0             |      |           |      |
| Surr: 2,4,6-Tribromophenol | 104.6  | 10  | 100     | 0             | 105  | 45-146        | 0             |      |           |      |
| Surr: 2-Fluorobiphenyl     | 94.4   | 10  | 100     | 0             | 94.4 | 55-120        | 0             |      |           |      |
| Surr: 2-Fluorophenol       | 51.39  | 10  | 100     | 0             | 51.4 | 21-110        | 0             |      |           |      |
| Surr:4-Terphenyl-d14       | 113.9  | 10  | 100     | 0             | 114  | 42-153        | 0             |      |           |      |
| Surr:Nitrobenzene-d5       | 96.19  | 10  | 100     | 0             | 96.2 | 51-117        | 0             |      |           |      |
| Surr: Phenol-d6            | 31.65  | 10  | 100     | 0             | 31.7 | 10-110        | 0             |      |           |      |

LCSD Sample ID: SLCSDT1-031002 Test Code: SW1311/8270 Units: µg/L Analysis Date: 10/02/03 15:20

Client ID: Run ID: SV-3\_031002A SeqNo: 374918 Prep Date: 10/2/2003 DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| 2,4,5-Trichlorophenol      | 56.27  | 10  | 50      | 0             | 113  | 48-119        | 55.84         | 0.769 | 25        |      |
| 2,4,6-Trichlorophenol      | 54.17  | 10  | 50      | 0             | 108  | 52-119        | 54.73         | 1.03  | 25        |      |
| 2,4-Dinitrotoluene         | 47.63  | 10  | 50      | 0             | 95.3 | 46-114        | 47.02         | 1.29  | 25        |      |
| Cresols, Total             | 120.7  | 30  | 150     | 0             | 80.5 | 35-100        | 119.7         | 0.827 | 25        |      |
| Hexachlorobenzene          | 24.9   | 10  | 50      | 0             | 49.8 | 25-84         | 25.58         | 2.7   | 25        |      |
| Hexachlorobutadiene        | 56.58  | 10  | 50      | 0             | 113  | 47-120        | 57.33         | 1.33  | 25        |      |
| Hexachloroethane           | 52.93  | 10  | 50      | 0             | 106  | 47-113        | 52.83         | 0.194 | 25        |      |
| Nitrobenzene               | 52.25  | 10  | 50      | 0             | 105  | 55-111        | 51.11         | 2.21  | 25        |      |
| Pentachlorophenol          | 56.09  | 10  | 50      | 0             | 112  | 36-120        | 57.01         | 1.63  | 42        |      |
| Pyridine                   | 27.21  | 10  | 50      | 0             | 54.4 | 17-80         | 25.41         | 6.83  | 25        |      |
| Surr: 2,4,6-Tribromophenol | 108.3  | 10  | 100     | 0             | 108  | 45-146        | 104.6         | 3.51  | 25        |      |
| Surr: 2-Fluorobiphenyl     | 95.73  | 10  | 100     | 0             | 95.7 | 55-120        | 94.4          | 1.41  | 25        |      |
| Surr: 2-Fluorophenol       | 51.56  | 10  | 100     | 0             | 51.6 | 21-110        | 51.39         | 0.341 | 25        |      |
| Surr:4-Terphenyl-d14       | 114.8  | 10  | 100     | 0             | 115  | 42-153        | 113.9         | 0.779 | 25        |      |
| Surr:Nitrobenzene-d5       | 95.9   | 10  | 100     | 0             | 95.9 | 51-117        | 96.19         | 0.299 | 25        |      |
| Surr: Phenol-d6            | 31.22  | 10  | 100     | 0             | 31.2 | 10-110        | 31.65         | 1.37  | 25        |      |

The following samples were analyzed in this batch:

0309259-01A 0309259-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

**CLIENT:** Navajo Refining Company  
**Work Order:** 0309259  
**Project:** Artesia TCLP

## QC BATCH REPORT

Batch ID: R16476      InstrumentID: VOA\_I

**MBLK**      Sample ID: VBLKW-1002      Test Code: SW1311/8260      Units: µg/L      Analysis Date: 10/03/03 0:40

Client ID:      Run ID: VOA\_I\_031002C      SeqNo: 375201      Prep Date:      DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| 1,1-Dichloroethene         | ND     | 5.0 |         |               |      |               |               |      |           |      |
| 1,2-Dichloroethane         | ND     | 5.0 |         |               |      |               |               |      |           |      |
| 1,4-Dichlorobenzene        | ND     | 5.0 |         |               |      |               |               |      |           |      |
| 2-Butanone                 | ND     | 10  |         |               |      |               |               |      |           |      |
| Benzene                    | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Carbontetrachloride        | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Chlorobenzene              | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Chloroform                 | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Tetrachloroethene          | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Trichloroethene            | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Vinyl chloride             | ND     | 5.0 |         |               |      |               |               |      |           |      |
| Surr:1,2-Dichloroethane-d4 | 45.66  | 0   | 50      | 0             | 91.3 | 70-130        | 0             |      |           |      |
| Surr:4-Bromofluorobenzene  | 46.65  | 0   | 50      | 0             | 93.3 | 70-130        | 0             |      |           |      |
| Surr:Dibromofluoromethane  | 48.08  | 0   | 50      | 0             | 96.2 | 70-130        | 0             |      |           |      |
| Surr:Toluene-d8            | 47.61  | 0   | 50      | 0             | 95.2 | 70-130        | 0             |      |           |      |

**MBLK**      Sample ID: VBLKT1-1002      Test Code: SW1311/8260      Units: µg/L      Analysis Date: 10/03/03 1:07

Client ID:      Run ID: VOA\_I\_031002C      SeqNo: 375202      Prep Date: 10/1/2003      DF: 20

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| 1,1-Dichloroethene         | ND     | 100 |         |               |      |               |               |      |           |      |
| 1,2-Dichloroethane         | ND     | 100 |         |               |      |               |               |      |           |      |
| 1,4-Dichlorobenzene        | ND     | 100 |         |               |      |               |               |      |           |      |
| 2-Butanone                 | ND     | 200 |         |               |      |               |               |      |           |      |
| Benzene                    | ND     | 100 |         |               |      |               |               |      |           |      |
| Carbontetrachloride        | ND     | 100 |         |               |      |               |               |      |           |      |
| Chlorobenzene              | ND     | 100 |         |               |      |               |               |      |           |      |
| Chloroform                 | ND     | 100 |         |               |      |               |               |      |           |      |
| Tetrachloroethene          | ND     | 100 |         |               |      |               |               |      |           |      |
| Trichloroethene            | ND     | 100 |         |               |      |               |               |      |           |      |
| Vinyl chloride             | ND     | 100 |         |               |      |               |               |      |           |      |
| Surr:1,2-Dichloroethane-d4 | 918.6  | 0   | 1000    | 0             | 91.9 | 70-130        | 0             |      |           |      |
| Surr:4-Bromofluorobenzene  | 926.9  | 0   | 1000    | 0             | 92.7 | 70-130        | 0             |      |           |      |
| Surr:Dibromofluoromethane  | 942.3  | 0   | 1000    | 0             | 94.2 | 70-130        | 0             |      |           |      |
| Surr:Toluene-d8            | 947.7  | 0   | 1000    | 0             | 94.8 | 70-130        | 0             |      |           |      |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company  
 Work Order: 0309259  
 Project: Artesia TCLP

## QC BATCH REPORT

Batch ID: R16476 InstrumentID: VOA\_I

MBLK Sample ID: VBLKT2-0930 Test Code: SW1311/8260 Units: µg/L Analysis Date: 10/03/03 1:34

Client ID: Run ID: VOA\_I\_031002C SeqNo: 375203 Prep Date: 9/29/2003 DF: 20

| Analyte                     | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| 1,1-Dichloroethene          | ND     | 100 |         |               |      |               |               |      |           |      |
| 1,2-Dichloroethane          | ND     | 100 |         |               |      |               |               |      |           |      |
| 1,4-Dichlorobenzene         | ND     | 100 |         |               |      |               |               |      |           |      |
| 2-Butanone                  | ND     | 200 |         |               |      |               |               |      |           |      |
| Benzene                     | ND     | 100 |         |               |      |               |               |      |           |      |
| Carbon tetrachloride        | ND     | 100 |         |               |      |               |               |      |           |      |
| Chlorobenzene               | ND     | 100 |         |               |      |               |               |      |           |      |
| Chloroform                  | ND     | 100 |         |               |      |               |               |      |           |      |
| Tetrachloroethene           | ND     | 100 |         |               |      |               |               |      |           |      |
| Trichloroethene             | ND     | 100 |         |               |      |               |               |      |           |      |
| Vinyl chloride              | ND     | 100 |         |               |      |               |               |      |           |      |
| Surr: 1,2-Dichloroethane-d4 | 907.9  | 0   | 1000    | 0             | 90.8 | 70-130        | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene  | 923.2  | 0   | 1000    | 0             | 92.3 | 70-130        | 0             |      |           |      |
| Surr: Dibromofluoromethane  | 960.4  | 0   | 1000    | 0             | 96   | 70-130        | 0             |      |           |      |
| Surr: Toluene-d8            | 955.1  | 0   | 1000    | 0             | 95.5 | 70-130        | 0             |      |           |      |

LCS Sample ID: VLCSW-1002 Test Code: SW1311/8260 Units: µg/L Analysis Date: 10/02/03 23:18

Client ID: Run ID: VOA\_I\_031002C SeqNo: 375199 Prep Date: DF: 1

| Analyte                     | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| 1,1-Dichloroethene          | 55.37  | 5.0 | 50      | 0             | 111  | 50.8-126      | 0             |      |           |      |
| 1,2-Dichloroethane          | 48.35  | 5.0 | 50      | 0             | 96.7 | 70-130        | 0             |      |           |      |
| 1,4-Dichlorobenzene         | 48.9   | 5.0 | 50      | 0             | 97.8 | 70-130        | 0             |      |           |      |
| 2-Butanone                  | 96.03  | 10  | 100     | 0             | 96   | 70-130        | 0             |      |           |      |
| Benzene                     | 49.75  | 5.0 | 50      | 0             | 99.5 | 70.1-128      | 0             |      |           |      |
| Carbon tetrachloride        | 48.59  | 5.0 | 50      | 0             | 97.2 | 70-130        | 0             |      |           |      |
| Chlorobenzene               | 48.45  | 5.0 | 50      | 0             | 96.9 | 72.5-127      | 0             |      |           |      |
| Chloroform                  | 51.61  | 5.0 | 50      | 0             | 103  | 70-130        | 0             |      |           |      |
| Tetrachloroethene           | 47.47  | 5.0 | 50      | 0             | 94.9 | 70-130        | 0             |      |           |      |
| Trichloroethene             | 50.19  | 5.0 | 50      | 0             | 100  | 72.5-129      | 0             |      |           |      |
| Vinyl chloride              | 53.24  | 5.0 | 50      | 0             | 106  | 70-130        | 0             |      |           |      |
| Surr: 1,2-Dichloroethane-d4 | 45.28  | 0   | 50      | 0             | 90.6 | 65.3-120      | 0             |      |           |      |
| Surr: 4-Bromofluorobenzene  | 46.54  | 0   | 50      | 0             | 93.1 | 74.9-115      | 0             |      |           |      |
| Surr: Dibromofluoromethane  | 47.91  | 0   | 50      | 0             | 95.8 | 70.5-119      | 0             |      |           |      |
| Surr: Toluene-d8            | 47.04  | 0   | 50      | 0             | 94.1 | 72.6-119      | 0             |      |           |      |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company  
 Work Order: 0309259  
 Project: Artesia TCLP

## QC BATCH REPORT

Batch ID: R16476 InstrumentID: VOA\_I

LCSD Sample ID: VLCSWD-1002 Test Code: SW1311/8260 Units: µg/L Analysis Date: 10/02/03 23:46

Client ID: Run ID: VOA\_I\_031002C SeqNo: 375200 Prep Date: DF: 1

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| 1,1-Dichloroethene         | 57.03  | 5.0 | 50      | 0             | 114  | 50.8-126      | 55.37         | 2.96  | 20        |      |
| 1,2-Dichloroethane         | 49.39  | 5.0 | 50      | 0             | 98.8 | 70-130        | 48.35         | 2.14  | 20        |      |
| 1,4-Dichlorobenzene        | 50.28  | 5.0 | 50      | 0             | 101  | 70-130        | 48.9          | 2.78  | 20        |      |
| 2-Butanone                 | 96.56  | 10  | 100     | 0             | 96.6 | 70-130        | 96.03         | 0.545 | 20        |      |
| Benzene                    | 50.41  | 5.0 | 50      | 0             | 101  | 70.1-128      | 49.75         | 1.31  | 20        |      |
| Carbontetrachloride        | 48.8   | 5.0 | 50      | 0             | 97.6 | 70-130        | 48.59         | 0.434 | 20        |      |
| Chlorobenzene              | 49.76  | 5.0 | 50      | 0             | 99.5 | 72.5-127      | 48.45         | 2.67  | 20        |      |
| Chloroform                 | 51.87  | 5.0 | 50      | 0             | 104  | 70-130        | 51.61         | 0.491 | 20        |      |
| Tetrachloroethene          | 48.69  | 5.0 | 50      | 0             | 97.4 | 70-130        | 47.47         | 2.54  | 20        |      |
| Trichloroethene            | 49.36  | 5.0 | 50      | 0             | 98.7 | 72.5-129      | 50.19         | 1.66  | 20        |      |
| Vinyl chloride             | 53.83  | 5.0 | 50      | 0             | 108  | 70-130        | 53.24         | 1.11  | 20        |      |
| Surr:1,2-Dichloroethane-d4 | 44.9   | 0   | 50      | 0             | 89.8 | 65.3-120      | 45.28         | 0.83  | 20        |      |
| Surr:4-Bromofluorobenzene  | 47.56  | 0   | 50      | 0             | 95.1 | 74.9-115      | 46.54         | 2.17  | 20        |      |
| Surr:Dibromofluoromethane  | 47.54  | 0   | 50      | 0             | 95.1 | 70.5-119      | 47.91         | 0.762 | 20        |      |
| Surr:Toluene-d8            | 47.82  | 0   | 50      | 0             | 95.6 | 72.6-119      | 47.04         | 1.64  | 20        |      |

MS Sample ID: 0310009-01BMS Test Code: SW1311/8260 Units: µg/L Analysis Date: 10/03/03 2:28

Client ID: Run ID: VOA\_I\_031002C SeqNo: 375205 Prep Date: 10/1/2003 DF: 20

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| 1,1-Dichloroethene         | 969.9  | 100 | 1000    | 0             | 97   | 70-130        | 0             |      |           |      |
| 1,2-Dichloroethane         | 1174   | 100 | 1000    | 0             | 117  | 70-130        | 0             |      |           |      |
| 1,4-Dichlorobenzene        | 1120   | 100 | 1000    | 0             | 112  | 70-130        | 0             |      |           |      |
| 2-Butanone                 | 2198   | 200 | 2000    | 0             | 110  | 70-130        | 0             |      |           |      |
| Benzene                    | 1092   | 100 | 1000    | 0             | 109  | 70-130        | 0             |      |           |      |
| Carbontetrachloride        | 853    | 100 | 1000    | 0             | 85.3 | 70-130        | 0             |      |           |      |
| Chlorobenzene              | 1109   | 100 | 1000    | 0             | 111  | 70-130        | 0             |      |           |      |
| Chloroform                 | 1193   | 100 | 1000    | 0             | 119  | 70-130        | 0             |      |           |      |
| Tetrachloroethene          | 926.6  | 100 | 1000    | 0             | 92.7 | 70-130        | 0             |      |           |      |
| Trichloroethene            | 1020   | 100 | 1000    | 0             | 102  | 70-130        | 0             |      |           |      |
| Vinyl chloride             | 888.3  | 100 | 1000    | 0             | 88.8 | 70-130        | 0             |      |           |      |
| Surr:1,2-Dichloroethane-d4 | 910.9  | 0   | 1000    | 0             | 91.1 | 70-130        | 0             |      |           |      |
| Surr:4-Bromofluorobenzene  | 938    | 0   | 1000    | 0             | 93.8 | 70-130        | 0             |      |           |      |
| Surr:Dibromofluoromethane  | 963.1  | 0   | 1000    | 0             | 96.3 | 70-130        | 0             |      |           |      |
| Surr:Toluene-d8            | 932.4  | 0   | 1000    | 0             | 93.2 | 70-130        | 0             |      |           |      |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company  
 Work Order: 0309259  
 Project: Artesia TCLP

## QC BATCH REPORT

Batch ID: R16476 InstrumentID: VOA\_I

MSD Sample ID: 0310009-01BMSD Test Code: SW1311/8260 Units: µg/L Analysis Date: 10/03/03 2:55

Client ID: Run ID: VOA\_I\_031002C SeqNo: 375206 Prep Date: 10/1/2003 DF: 20

| Analyte                    | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|----------------------------|--------|-----|---------|---------------|------|---------------|---------------|-------|-----------|------|
| 1,1-Dichloroethene         | 1054   | 100 | 1000    | 0             | 105  | 70-130        | 969.9         | 8.28  | 20        |      |
| 1,2-Dichloroethane         | 1169   | 100 | 1000    | 0             | 117  | 70-130        | 1174          | 0.428 | 0         |      |
| 1,4-Dichlorobenzene        | 1147   | 100 | 1000    | 0             | 115  | 70-130        | 1120          | 2.46  | 0         |      |
| 2-Butanone                 | 2286   | 200 | 2000    | 0             | 114  | 70-130        | 2198          | 3.91  | 0         |      |
| Benzene                    | 1110   | 100 | 1000    | 0             | 111  | 70-130        | 1092          | 1.65  | 20        |      |
| Carbontetrachloride        | 903.3  | 100 | 1000    | 0             | 90.3 | 70-130        | 853           | 5.73  | 0         |      |
| Chlorobenzene              | 1134   | 100 | 1000    | 0             | 113  | 70-130        | 1109          | 2.28  | 20        |      |
| Chloroform                 | 1208   | 100 | 1000    | 0             | 121  | 70-130        | 1193          | 1.19  | 0         |      |
| Tetrachloroethene          | 962.8  | 100 | 1000    | 0             | 96.3 | 70-130        | 926.6         | 3.83  | 0         |      |
| Trichloroethene            | 1048   | 100 | 1000    | 0             | 105  | 70-130        | 1020          | 2.7   | 20        |      |
| Vinyl chloride             | 942.7  | 100 | 1000    | 0             | 94.3 | 70-130        | 888.3         | 5.94  | 0         |      |
| Surr:1,2-Dichloroethane-d4 | 920.8  | 0   | 1000    | 0             | 92.1 | 70-130        | 910.9         | 1.08  | 20        |      |
| Surr:4-Bromofluorobenzene  | 948    | 0   | 1000    | 0             | 94.8 | 70-130        | 938           | 1.06  | 20        |      |
| Surr:Dibromofluoromethane  | 964.2  | 0   | 1000    | 0             | 96.4 | 70-130        | 963.1         | 0.113 | 20        |      |
| Surr:Toluene-d8            | 940.7  | 0   | 1000    | 0             | 94.1 | 70-130        | 932.4         | 0.891 | 20        |      |

The following samples were analyzed in this batch:

0309259-01A 0309259-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

**CLIENT:** Navajo Refining Company  
**Work Order:** 0309259  
**Project:** Artesia TCLP

## QC BATCH REPORT

Batch ID: **R16377** InstrumentID: **WetChemistry**

**LCS** Sample ID: **WLCSS1-092903** Test Code: **SW9045B** Units: **pH Units** Analysis Date: **09/29/03 0:00**

Client ID: Run ID: **WET CHEMISTRY\_0309** SeqNo: **373022** Prep Date: DF: **1**

| Analyte | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| pH      | 6.01   | 0.10 | 6       | 0             | 100  | 85-115        | 0             |      |           |      |

**DUP** Sample ID: **0309255-01BDUP** Test Code: **SW9045B** Units: **pH Units** Analysis Date: **09/29/03 0:00**

Client ID: Run ID: **WET CHEMISTRY\_0309** SeqNo: **373029** Prep Date: DF: **1**

| Analyte | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD  | RPD Limit | Qual |
|---------|--------|------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| pH      | 7.03   | 0.10 | 0       | 0             | 0    | 75-125        | 7.02          | 0.142 | 20        |      |

The following samples were analyzed in this batch:

0309259-01A 0309259-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



CLIENT: Navajo Refining Company  
Work Order: 0309259  
Project: Artesia TCLP

## QC BATCH REPORT

Batch ID: R16382 InstrumentID: WetChemistry

DUP Sample ID: 0309259-01ADUP Test Code: SW846, Chpt. Units: Analysis Date: 09/29/03 0:00

Client ID: ChlorideGuard Run ID: WET CHEMISTRY\_0309 SeqNo: 373069 Prep Date: DF: 1

| Analyte                             | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-------------------------------------|--------|-----|---------|---------------|------|---------------|---------------|------|-----------|------|
| Burns vigorously and persistently   | ND     | 0   | 0       | 0             | 0    | 0-0           | 0             | 0    | 0         |      |
| Ignites spontaneously               | ND     | 0   | 0       | 0             | 0    | 0-0           | 0             | 0    | 0         |      |
| Ignites through friction            | ND     | 0   | 0       | 0             | 0    | 0-0           | 0             | 0    | 0         |      |
| Ignites under std. temp and pressur | ND     | 0   | 0       | 0             | 0    | 0-0           | 0             | 0    | 0         |      |
| Ignites with moisture               | ND     | 0   | 0       | 0             | 0    | 0-0           | 0             | 0    | 0         |      |

The following samples were analyzed in this batch:

0309259-01A 0309259-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



e-Lab, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 9/26/2003 9:20:00 AM

Work Order Number 0309259

Received by: RSZ

Checklist completed by

[Signature] 9/26/03

Reviewed by

LT 9/29/03

Matrix:

Catalyst

Carrier name: FedEx

|                                                         |                                         |                             |                                                            |
|---------------------------------------------------------|-----------------------------------------|-----------------------------|------------------------------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>                       |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/>            |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/>            |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                                            |
| Temperature(s)/Thermometer(s):                          | <u>4.7c</u>                             | <u>003</u>                  |                                                            |
| Water - VOA vials have zero headspace?                  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/>                    |

Adjusted? \_\_\_\_\_ Checked by \_\_\_\_\_

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_

W.O. # 0309259.

NAVAJO REFINING COMPANY

501 E. MAIN STREET  
ARTESIA NM 88210  
5057483311

SHIP DATE: 25SEP2003  
ACCOUNT # 113684186  
ACTUAL WGT: 7.00 LBS

Part #: 156148/434 NRIIT 6-02 :



TO:

E-LAB  
SAMPLE RECIEVING  
10450 STANCLIFF ROAD STE 210  
HOUSTON TX 77099

2815305656  
BILL RECIPIENT



Delivery Address Barcode

FedEx STANDARD OVERNIGHT

FRI

System # 2223500 25SEP2003

TRK# 7909 1278 5015 Form 0201

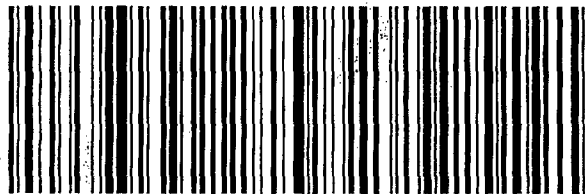
DELIVER BY:  
26SEP2003

IAH

A2

77099-TX-US

A9 JGQA



OSUS v5.2.00 2223500 2844 04/02

e-Lab, Inc

Date: October 07, 2003

CLIENT: e-Lab, Inc

Project: 0309 259

Work Order: 0309 408

## Work Order Sample Summary

| <u>Lab Sample ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hdd</u>               |
|----------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 0309 408 - 01        | 0309259-01B             | Soil          |                   | 9/25/2003 10:00        | 9/30/2003 10:45      | <input type="checkbox"/> |
| 0309 408 - 02        | 0309259-02B             | Soil          |                   | 9/25/2003 10:00        | 9/30/2003 10:45      | <input type="checkbox"/> |

**e-Lab, Inc**

Date: October 07, 2003

**CLIENT:** e-Lab, Inc  
**Project:** 0309 259**Work Order:** 0309 408**Lab ID:** 0309 408 - 01A**Collection Date:** 9/25/2003 10:00:00 AM**Client Sample ID:** 0309 259 - 01B**Matrix:** SOIL

| Analyses                                      | Result | Report<br>Limit | Qual Units                | Dilution<br>Factor | Date Analyzed               |
|-----------------------------------------------|--------|-----------------|---------------------------|--------------------|-----------------------------|
| <b>CYANIDE, REACTIVE</b><br>Cyanide, Reactive | ND     |                 | EPA 7.3.3.2<br>0.50 mg/Kg | 1                  | Analys t: KAE<br>10/ 2/2003 |
| <b>SULFIDE, REACTIVE</b><br>Sulfide, Reactive | ND     |                 | EPA 7.3.4.2<br>40 mg/Kg   | 1                  | Analys t: KAE<br>10/ 7/2003 |

**Lab ID:** 0309 408 - 02A**Collection Date:** 9/25/2003 10:00:00 AM**Client Sample ID:** 0309 259 - 02B**Matrix:** SOIL

| Analyses                                      | Result | Report<br>Limit | Qual Units                | Dilution<br>Factor | Date Analyzed               |
|-----------------------------------------------|--------|-----------------|---------------------------|--------------------|-----------------------------|
| <b>CYANIDE, REACTIVE</b><br>Cyanide, Reactive | ND     |                 | EPA 7.3.3.2<br>0.50 mg/Kg | 1                  | Analys t: KAE<br>10/ 2/2003 |
| <b>SULFIDE, REACTIVE</b><br>Sulfide, Reactive | ND     |                 | EPA 7.3.4.2<br>40 mg/Kg   | 1                  | Analys t: KAE<br>10/ 7/2003 |

**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

e-Lab, Inc

Date: Oct 07 2003

CLIENT: e-Lab, Inc

## QC BATCH REPORT

Work Order: 0309 408

Project: 0309 259

Batch ID: R16777 Instrument ID: WETCHEM

MBLK Sample ID: WBLKW1-100103 Test Code: EPA 7.3.3.2 Units: ng/Kg Analysis Date: 10/02/03 0:00

Client ID: Run ID: WETCHEM\_031002C SeqNo: 242301 Prep Date:

| Analyte           | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Cyanide, Reactive | ND     | 0.50 |         |               |      |               |               |      |           |      |

LCS Sample ID: WLC SW1-100103 Test Code: EPA 7.3.3.2 Units: ng/Kg Analysis Date: 10/02/03 0:00

Client ID: Run ID: WETCHEM\_031002C SeqNo: 242302 Prep Date:

| Analyte           | Result | PQL  | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-------------------|--------|------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Cyanide, Reactive | 5.075  | 0.50 | 19.2    | 0             | 26.4 | 5-100         | 0             |      |           |      |

The following samples were analyzed in this batch:

0309 408-01A 0309 408-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: e-Lab, Inc  
Work Order: 0309 408  
Project: 0309 259

## QC BATCH REPORT

Batch ID: R16857 Instrument ID: WETCHEM

|                   |                          |                        |              |                              |      |               |               |      |           |      |
|-------------------|--------------------------|------------------------|--------------|------------------------------|------|---------------|---------------|------|-----------|------|
| MBLK              | Sample ID: WBLKW1-031007 | Test Code: EPA 7.3.4.2 | Units: ng/Kg | Analysis Date: 10/07/03 0:00 |      |               |               |      |           |      |
| Client ID:        | Run ID: WETCHEM_031007L  | SeqNo: 243302          | Prep Date:   |                              |      |               |               |      |           |      |
| Analyte           | Result                   | PQL                    | SPK Val      | SPK Ref Value                | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Sulfide, Reactive | ND                       | 40                     |              |                              |      |               |               |      |           |      |

The following samples were analyzed in this batch:

0309 408 - 01A 0309 408-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is >4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference >40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range





**THE REPRODUCTION OF**

**THE**

**FOLLOWING**

**DOCUMENT ( S )**

**CANNOT BE IMPROVED**

**DUE TO**

**THE CONDITION OF**

**THE ORIGINAL**

# DEPT. OF CUSTOMS RECORD

RECEIVED  
 DEPT. OF CUSTOMS  
 10/10/1918

RECEIVED  
 DEPT. OF CUSTOMS  
 10/10/1918

RECEIVED  
 DEPT. OF CUSTOMS  
 10/10/1918

RECEIVED  
 DEPT. OF CUSTOMS  
 10/10/1918

RECEIVED  
 DEPT. OF CUSTOMS  
 10/10/1918

RECEIVED  
 DEPT. OF CUSTOMS  
 10/10/1918

| Serial No. | DATE       | DESCRIPTION     | AMOUNT | REMARKS |
|------------|------------|-----------------|--------|---------|
| 1          | 10/10/1918 | Import of Goods | 100.00 |         |
| 2          | 10/10/1918 | Export of Goods | 50.00  |         |

RECEIVED  
 DEPT. OF CUSTOMS  
 10/10/1918

RECEIVED  
 DEPT. OF CUSTOMS  
 10/10/1918

RECEIVED  
 DEPT. OF CUSTOMS  
 10/10/1918

01/11/11

State Record Office

1. Name of the

2. Date of the

3. Reference

4. Date of the

5. Name of the

6. Date of the

7. Name of the

8. Date of the

9. Name of the

10. Date of the

11. Name of the

12. Name of the

13. Date of the

14. Name of the

15. Name of the

16. Date of the

17. Name of the

18. Name of the

19. Date of the

20. Name of the

21. Name of the

22. Date of the

23. Name of the

24. Name of the

25. Date of the

26. Name of the

27. Name of the

28. Date of the

29. Name of the

30. Name of the

31. Date of the

32. Name of the

33. Name of the

34. Date of the

35. Name of the

36. Name of the

37. Date of the

38. Name of the

39. Name of the

40. Date of the

41. Name of the

42. Name of the

43. Date of the

44. Name of the

45. Name of the

46. Date of the

47. Name of the

48. Name of the

49. Date of the

50. Name of the

51. Name of the

52. Date of the

53. Name of the

54. Name of the

55. Name of the

56. Date of the

57. Name of the

58. Name of the

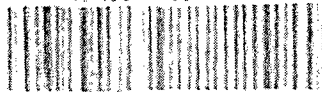
59. Date of the

60. Name of the

61. Name of the

NOV 01 1999 14:00:00

NOV 01 1999 14:00:00



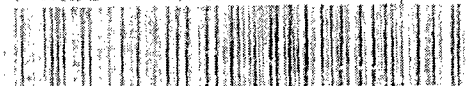
FedEx

To e-Lab Sample Receiving (616)399-6070  
e-Lab Michigan  
2952 120th Ave.

SHIP DATE: 11/01/99  
SHIP TIME: 14:00

Holland, MI 49424

NOV 01 1999 14:00:00



TRK # 7909 1582 7106 (W) FedEx STANDARD OVERNIGHT

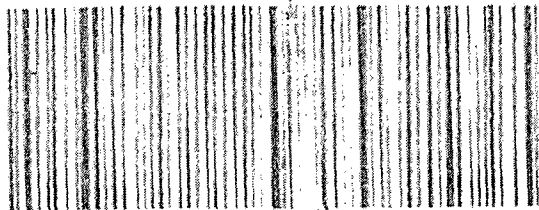
TUE

GRR

49424-MI-US

NH HLMA

3051 PC2



# RECEIVED

District I  
1625 N. French Dr., Hobbs, NM 88240

District II  
1301 W. Grand Avenue, Artesia, NM 88210

District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Navajo Refining         |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Artesia Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter D & J                 |
| 7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8. State New Mexico                  |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                      |

### BRIEF DESCRIPTION OF MATERIAL:

RE: 11-10-03 (renewal of previous C-138)

Empty asphalt cans. Cans are used to catch asphalt samples for Lab. Cans are drained before shipment.  
Request approval through effective date of discharge plan GW-028, Expires Oct. 21, 2006.

This material has been approved in the past.

*This Approval is Good For one year or until 11-16-04* mjk

Estimated Volume 100 yards/year Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy



SIGNATURE Kim Flowers  
Waste Management Facility Authorized Agent

TITLE: Rep DATE: 11-10-03

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

11703-3

|                                    |                                                             |
|------------------------------------|-------------------------------------------------------------|
| (This space for State Use)         |                                                             |
| APPROVED BY: <u>Paul Alenby</u>    | TITLE: <u>ENVIRONMENTAL ENGINEER</u> DATE: <u>11-12-03</u>  |
| APPROVED BY: <u>Monty J. Kelly</u> | TITLE: <u>Environmental Geologist</u> DATE: <u>11-17-03</u> |

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Asphalt Sample Cans

ESTIMATED VOLUME: 100 yards/ Year

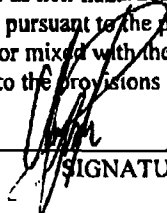
GENERATING PROCESS: Aluminum Cans used in our lab to sample crude to see  
For testing.

REMARKS: The sample cans are RCRA clean before being disposed of

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: D&J Waste Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: 

SIGNATURE

NAME: Charlie Plymale

PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 11/6/03



## REFINING COMPANY

FAX

(505) 746-5283 DIV. ORDERS  
(505) 746-5481 TRUCKING  
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159  
TELEPHONE (505) 748-3311

FAX

(505) 746-5419 ACCOUNTING  
(505) 746-5451 EXEC/MKTG  
(505) 746-5421 ENGINEERING  
(505) 746-5480 PIPELINE

November 4, 2003

Ken Marsh  
CRI  
P.O. Box 388  
Hobbs, NM 88214

Ken,

I would like to profile by process knowledge: (1) Asphalt sample cans that are RCRA clean. (2) Cooling tower sludge- which is blow sand and dirt that the wind blows into our cooling towers throughout the year at both the Artesia and Lovington Refineries. (3) Pipeline filters that the diesel that is ship from the refinery. (4) FCC cat fines that is a clay media used for air drying in our FCC Unit. All these materials have been approved in the passed and the process has not changed with any of these materials.

I would also like to renew our profile for our Chloride Guard catalysts. I have included the analytical for the Chloride Guard catalyst and analytical for the FCC cat fines.

If you have any question please feel free to call me at (505) 746-5241 or (505) 365-4298.

Sincerely,

Charlie Plymale  
Sr. Environmental Specialist

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Bravos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

NOV 17 2003

OIL CONSERVATION  
DIVISION

State of New Mexico

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                           | 4. Generator Navajo Refining         |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5. Originating Site Artesia Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6. Transporter D & J                 |
| 7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8. State New Mexico                  |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by test 49 CFR 163.109 testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                      |

## BRIEF DESCRIPTION OF MATERIAL:

RE: 11-10-03A (renewal of previous C-138)

Pipeline Filters used to separate solids from finished products being transferred in pipelines.

Enclosed are request for approval, prior approvals, non-exempt waste form, prior analytical and process of knowledge letter.

Request approval through effective date of discharge plan GW-028, Expires Oct. 21, 2006. OCD will be notified of any change of process.

This material has been approved in the past.

This approval is good for one year or until 11/16/04 mjk

Estimated Volume 1000 yards/year Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE

Kim Flowers

Waste Management Facility Authorized Agent

TITLE: Rep

DATE: 11-10-03

TYPE OR PRINT NAME: Kim Flowers

TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

(This space for State Use)

APPROVED BY:

Paul Beatty

TITLE:

ENVIRONMENTAL ENGINEER

DATE: 11-12-03

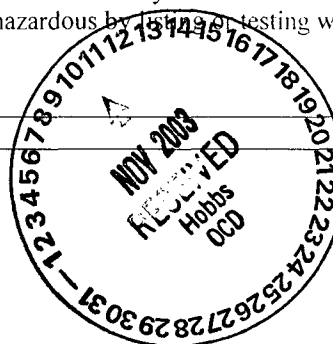
APPROVED BY:

Monty J. Kelly

TITLE:

Environmental Geologist

DATE: 11/17/03



11-10-03-41





## REFINING COMPANY

### FAX

(505) 746-5283 DIV. ORDERS  
(505) 746-5481 TRUCKING  
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET - P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159  
TELEPHONE (505) 748-3311

### FAX

(505) 746-5419 ACCOUNTING  
(505) 746-5451 EXEC/MKTG  
(505) 746-5421 ENGINEERING  
(505) 746-5480 PIPELINE

November 7, 2003

Ken Marsh  
CRI  
P.O. Box 388  
Hobbs, NM 88214

Ken,

We would like to renew our profile for the disposal of our pipeline filters that are used to separate solids from our finished products being transferred in pipelines to and from our terminals. The filters have not had a change in process for any of our terminals as well as the Artesia Refinery.

If you have any questions feel free to call me at (505) 746-5241.

Sincerely,

Charlie Plymale  
Sr. Environmental Specialist

|                        |              |         |                 |
|------------------------|--------------|---------|-----------------|
| Post-It® Fax Note 7671 |              | Date    | # of pages      |
| To                     | Ken Marsh    | 11/7/03 | 6               |
| Co./Dept.              |              | From    | Charlie Plymale |
| Phone #                |              | Co.     |                 |
| Fax #                  | 505 393 3645 | Phone # |                 |
|                        |              | Fax #   | 505 746 5285    |

An Independent Refinery Serving . . .  
NEW MEXICO • ARIZONA • WEST TEXAS • NORTHERN MEXICO

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Pipeline Filters

ESTIMATED VOLUME: 1000 yards/ Year

GENERATING PROCESS: Filters used to separate solids from finished diesel  
Being transferred in pipelines to and from our terminals.

REMARKS: This material has been approved in the past

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: D&J Waste Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: \_\_\_\_\_

SIGNATURE

NAME: Charlie Plymale

PRINTED

ADDRESS: 501 EAST MAIN

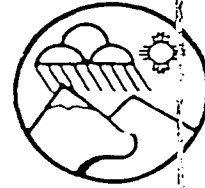
ARTESIA, NM 88210

DATE: 11/6/03



GARY E. JOHNSON  
GOVERNOR

ENVIRONMENT DEPARTMENT  
Hazardous & Radioactive Materials Bureau  
2044 Galisteo  
P.O. Box 26110  
Santa Fe, New Mexico 87502  
(505) 827-1557  
Fax (505) 827-1544



MARK E. WEIDLER  
SECRETARY

EDGAR T. THORNTON, III  
DEPUTY SECRETARY

November 10, 1997

Mr. Darrell Moore  
Environmental Manager for Water and Waste  
Navajo Refining Company  
P.O. Box 159  
Arcesia, New Mexico 88211-0159

Dear Mr. Moore:

RE: Disposal of Pipeline Filters

Based on the information Navajo Refining Company (NRC), has provided on the above captioned subject, the New Mexico Environment Department (NMED), Hazardous and Radioactive Materials Bureau (HRMB), finds that your knowledge of process (KOP) is sufficient at this point in time to support a non-hazardous waste designation for these filters. However, NMED must point out that should any changes be made to the "process" or "processes" which generate this waste, NRC must perform another hazardous waste determination on the filters affected. NMED/HRMB may also sample this waste stream at periodic intervals in the future as well.

If you have any further questions or if I can be of any other assistance, please call me at (505) 827-1508.

Sincerely,

John M. Tymkovich  
RCRA Inspection/Enforcement Program Manager  
Hazardous and Radioactive Materials Bureau

cc: Benito J. Garcia, Chief HRMB  
- Navajo, Blue, 1997

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  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

NOV 05 2001

Environmental Bureau  
Oil Conservation Division

Form C-138  
Revised March 17, 1995

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br>Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                           | 4. Generator Navajo Refining<br>5. Originating Site Artesia & El Paso Facilities |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter BES                                                               |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8. State New Mexico                                                              |
| 7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1000 E. Side Dr., El Paso, TX                                                    |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                                                  |

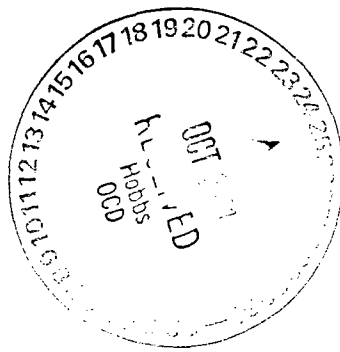
BRIEF DESCRIPTION OF MATERIAL:

10-24-01

Pipeline filters used to separate solids from finished products being transferred in pipelines to our El Paso terminal.

Enclosed is certificate of waste status, analytical data, and process of knowledge letter.

Col



Estimated Volume 20 yards cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Carmella Van Maanen TITLE: Bookkeeper DATE: 10-22-01  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: [Signature] TITLE: Environmental Engineer DATE: 10-29-01

APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 11-5-01



6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424  
Tel (806) 794 1296 Fax (806) 794 1298  
1 (800) 378 1296

Phone #: 915-722-3061

Fax #: 915-774-0546

**Star Contract:**

| Location Codes | Casualty Losses |
|----------------|-----------------|
| 1              | 1               |
| 2              | 2               |
| 3              | 3               |
| 4              | 4               |
| 5              | 5               |
| 6              | 6               |
| 7              | 7               |
| 8              | 8               |
| 9              | 9               |
| 10             | 10              |
| 11             | 11              |
| 12             | 12              |
| 13             | 13              |
| 14             | 14              |
| 15             | 15              |
| 16             | 16              |
| 17             | 17              |
| 18             | 18              |
| 19             | 19              |
| 20             | 20              |
| 21             | 21              |
| 22             | 22              |
| 23             | 23              |
| 24             | 24              |
| 25             | 25              |
| 26             | 26              |
| 27             | 27              |
| 28             | 28              |
| 29             | 29              |
| 30             | 30              |
| 31             | 31              |
| 32             | 32              |
| 33             | 33              |
| 34             | 34              |
| 35             | 35              |
| 36             | 36              |
| 37             | 37              |
| 38             | 38              |
| 39             | 39              |
| 40             | 40              |
| 41             | 41              |
| 42             | 42              |
| 43             | 43              |
| 44             | 44              |
| 45             | 45              |
| 46             | 46              |
| 47             | 47              |
| 48             | 48              |
| 49             | 49              |
| 50             | 50              |
| 51             | 51              |
| 52             | 52              |
| 53             | 53              |
| 54             | 54              |
| 55             | 55              |
| 56             | 56              |
| 57             | 57              |
| 58             | 58              |
| 59             | 59              |
| 60             | 60              |
| 61             | 61              |
| 62             | 62              |
| 63             | 63              |
| 64             | 64              |
| 65             | 65              |
| 66             | 66              |
| 67             | 67              |
| 68             | 68              |
| 69             | 69              |
| 70             | 70              |
| 71             | 71              |
| 72             | 72              |
| 73             | 73              |
| 74             | 74              |
| 75             | 75              |
| 76             | 76              |
| 77             | 77              |
| 78             | 78              |
| 79             | 79              |
| 80             | 80              |
| 81             | 81              |
| 82             | 82              |
| 83             | 83              |
| 84             | 84              |
| 85             | 85              |
| 86             | 86              |
| 87             | 87              |
| 88             | 88              |
| 89             | 89              |
| 90             | 90              |
| 91             | 91              |
| 92             | 92              |
| 93             | 93              |
| 94             | 94              |
| 95             | 95              |
| 96             | 96              |
| 97             | 97              |
| 98             | 98              |
| 99             | 99              |
| 100            | 100             |

## Star Job #

**Consultant Job #**

**Sampler Signature:**

SAME AS ABOVE

[illegible]

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received at Laboratory by: W.C. Penland Date: 1-5-01 Time: 10:00

Schedule of exercises is available in Terms and Conditions listed on reverse side of C.O.C.

**CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST**

AB Order ID: A010520

## ANALYSIS REQUEST

(Circle or Specify Method No.)

|                                             |  |
|---------------------------------------------|--|
| MTBE 8020/802                               |  |
| BTX 8020/802                                |  |
| TPH                                         |  |
| PAH 8270                                    |  |
| Total Metals Ag As Ba Cd Cr Pb Hg Se        |  |
| TCLP Metals Ag As Ba Cd Cr Pb Hg Se         |  |
| TCLP Volatiles                              |  |
| TCLP Semi Volatiles                         |  |
| RCI                                         |  |
| GC/MS Vol. 8240/8260/824                    |  |
| GC/MS Semi. Vol. 8270/825                   |  |
| PCB's 8080/808                              |  |
| Post. 8080/808                              |  |
| BOD, TSS, PH                                |  |
| Turn Around Time if different from standard |  |
| Hold                                        |  |

## REMARKS:

**LAB USE ONLY**

Initial Y / N  
 Headspace Y / N  
 Temp 60 °  
 Log-in Review *pm*

Carrier # Walk-in

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining CompanyADDRESS: 501 East Main, Artesia NM and 1000 East Side Drive, El Paso TXGENERATING SITE: Navajo Refining Company and El Paso TerminalCOUNTY: EddySTATE: NM, TXTYPE OF WASTE: Pipeline FiltersESTIMATED VOLUME: 20 yardsGENERATING PROCESS: Filters are used to separate solids from finished products  
being transferred in pipelines to our El Paso terminal.REMARKS: Process has not changed, therefore, enclosed is a letter from the NMED  
verifying this waste is non hazardous.NMOCD FACILITY: Controlled Recovery IncorporatedTRUCKING COMPANY: BES Rentals or Champion Inc.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: \_\_\_\_\_  
SIGNATURENAME: CHARLIE PLYMALE  
PRINTEDADDRESS: 501 EAST MAIN  
ARTESIA, NM 88210DATE: 10-24-01



## REFINING COMPANY

FAX

(505) 746-5283 DIV. ORDERS  
(505) 746-5481 TRUCKING  
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159  
TELEPHONE (505) 748-3311

FAX

(505) 746-5419 ACCOUNTING  
(505) 746-5451 EXECUTIVE  
(505) 746-5421 ENGINEERING  
(505) 746-5480 P / L

Ken Marsh  
CRI  
P.O.Box 388  
Hobbs, NM 88241

Oct. 23, 2001

I would like to get the following material profiled into your facility. This material has been profiled before for the Artesia Refinery and for our El Paso Terminal. I would like to combine our current C-138 (10-008 filter profile) with a profile for our El Paso Terminal.

1. Pipeline Filters (Filters are used to separate solids from finished products being transferred in pipelines to and from our El Paso Terminal).

The analytical on these filters is the same for Artesia Refinery and El Paso Terminal. The process has not changed for this waste.

Sincerely,

Charlie Plymale  
Environmental Specialist



# Navajo Refining Company



501 E Main St.  
P.O. Box 159  
Artesia NM, 88210  
Phone-(505) 748-3311

Engineering Department  
Fax-(505)746-5421

## Fax

Company Name \_\_\_\_\_

To: Martine Keiling

From: Charlie Plymale

Fax: 505 476-3462

Pages: 2 (Including cover sheet)

Phone: \_\_\_\_\_

Date: 12/4/01

Re: \_\_\_\_\_

CC: \_\_\_\_\_

☐ Urgent    ☐ For Review    ☐ Please Comment    ☐ Please Reply    ☐ Please Recycle

• Unless otherwise indicated or obvious from the nature of the transmittal, the information contained in this facsimile message is privileged and confidential information intended for the use of the individual or entity names above. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error or are not sure whether it is privileged, please immediately notify us by telephone and return the original message to us at the above address via the U.S. Postal Service. Thank you

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL LISA AT 505-746-5270

□ Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Report Date: January 25, 2001

Order Number: A01011221

Page Number: 2 of 10

N/A

N/A

N/A

## Analytical Report

## Sample: 162409 - Cartiridge Filter

Analysis: Corrosivity Analytical Method: S 1110 QC Batch: QC08184 Date Analyzed: 1/15/01  
 Analyst: TML Preparation Method: N/A Prep Batch: PB07116 Date Prepared: 1/16/01

| Param       | Flag | Result | Units | Dilution | RDL |
|-------------|------|--------|-------|----------|-----|
| Corrosivity |      | non    | mm/yr | 1        |     |
| pH          |      | 6.37   | s.u.  | 1        |     |

## Sample: 162409 - Cartiridge Filter

Analysis: Ignitability Analytical Method: SW-846 Ch. 7.1 QC Batch: QC08145 Date Analyzed: 1/15/01  
 Analyst: RR Preparation Method: Prep Batch: PB07117 Date Prepared: 1/16/01

| Param        | Flag | Result        | Units | Dilution | RDL |
|--------------|------|---------------|-------|----------|-----|
| Ignitability |      | non-ignitable |       | 1        |     |

## Sample: 162409 - Cartiridge Filter

Analysis: Reactivity Analytical Method: ASTM D 5049-90/4978-95 QC Batch: QC08147 Date Analyzed: 1/15/01  
 Analyst: RR Preparation Method: N/A Prep Batch: PB07115 Date Prepared: 1/16/01

| Param            | Flag | Result       | Units | Dilution | RDL |
|------------------|------|--------------|-------|----------|-----|
| Reactivity       |      | Non-reactive |       | 1        |     |
| Hydrogen Sulfide |      | <10          |       | 1        |     |
| Hydrogen Cyanide |      | <2.5         |       | 1        |     |

## Sample: 162409 - Cartiridge Filter

Analysis: TCLP Hg Analytical Method: S 7470A QC Batch: QC08260 Date Analyzed: 1/18/01  
 Analyst: SSC Preparation Method: E 1311 Prep Batch: PB07197 Date Prepared: 1/18/01

| Param        | Flag | Result | Units | Dilution | RDL  |
|--------------|------|--------|-------|----------|------|
| TCLP Mercury |      | <0.010 | mg/L  | 1        | 0.01 |

## Sample: 162409 - Cartiridge Filter

Analysis: TCLP Metals Analytical Method: S 6010B QC Batch: QC08362 Date Analyzed: 1/23/01  
 Analyst: RR Preparation Method: 1311 Prep Batch: PB07109 Date Prepared: 1/16/01

| Param         | Flag | Result | Units | Dilution | RDL  |
|---------------|------|--------|-------|----------|------|
| TCLP Arsenic  |      | <1     | mg/L  | 10       | 0.10 |
| TCLP Barium   |      | <1     | mg/L  | 10       | 0.10 |
| TCLP Cadmium  |      | <0.2   | mg/L  | 10       | 0.02 |
| TCLP Chromium |      | <1     | mg/L  | 10       | 0.10 |
| TCLP Lead     |      | <1     | mg/L  | 10       | 0.10 |
| TCLP Selenium |      | <1     | mg/L  | 10       | 0.10 |
| TCLP Silver   |      | <0.5   | mg/L  | 10       | 0.05 |

Report Date: January 25, 2001

Order Number: A01011221

Page Number: 3 of 10

N/A

N/A

N/A

## Sample: 162409 - Cartiridge Filter

Analysis: TCLP Semivolatiles Analytical Method: E 8270C QC Batch: QC08401 Date Analyzed: 1/24/01  
 Analyst: MA Preparation Method: 1311 Prep Batch: PB07305 Date Prepared: 1/18/01

| Param                 | Flag | Result | Units | Dilution | RDL  |
|-----------------------|------|--------|-------|----------|------|
| Pyridine              |      | <0.05  | mg/L  | 1        | 0.05 |
| o-Cresol              |      | 0.08   | mg/L  | 1        | 0.05 |
| m,p-Cresol            |      | 0.20   | mg/L  | 1        | 0.05 |
| Hexachloroethane      |      | <0.05  | mg/L  | 1        | 0.05 |
| Nitrobenzene          |      | <0.05  | mg/L  | 1        | 0.05 |
| Hexachlorobutadiene   |      | <0.05  | mg/L  | 1        | 0.05 |
| 2,4,6-Trichlorophenol |      | <0.05  | mg/L  | 1        | 0.05 |
| 2,4,5-Trichlorophenol |      | <0.05  | mg/L  | 1        | 0.05 |
| 2,4-Dinitrotoluene    |      | <0.05  | mg/L  | 1        | 0.05 |
| Hexachlorobenzene     |      | <0.05  | mg/L  | 1        | 0.05 |
| Pentachlorophenol     |      | <0.05  | mg/L  | 1        | 0.05 |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 2-Fluorophenol       |      | 29.74  | mg/Kg | 1        | 80           | 37               | 20 - 67         |
| Phenol-d5            |      | 19.12  | mg/Kg | 1        | 80           | 23               | 7 - 55          |
| Nitrobenzene-d5      |      | 35.56  | mg/Kg | 1        | 80           | 44               | 33 - 116        |
| 2-Fluorobiphenyl     |      | 64.49  | mg/Kg | 1        | 80           | 80               | 47 - 107        |
| 2,4,6-Tribromophenol |      | 60.06  | mg/Kg | 1        | 80           | 75               | 47 - 113        |
| Terphenyl-d14        |      | 68.49  | mg/Kg | 1        | 80           | 85               | 47 - 124        |

## Sample: 162409 - Cartiridge Filter

Analysis: TCLP Volatiles Analytical Method: S 8260B QC Batch: QC08234 Date Analyzed: 1/15/01  
 Analyst: JG Preparation Method: 1311 Prep Batch: PB07183 Date Prepared: 1/13/01

| Param                    | Flag | Result | Units | Dilution | RDL   |
|--------------------------|------|--------|-------|----------|-------|
| Vinyl Chloride           |      | <.0025 | mg/L  | 1        | 0.001 |
| 1,1-Dichloroethene       |      | <.0025 | mg/L  | 1        | 0.001 |
| Methyl ethyl ketone      |      | .058   | mg/L  | 1        | 0.01  |
| Chloroform               |      | <.0025 | mg/L  | 1        | 0.001 |
| 1,2-Dichloroethane (EDC) |      | <.0025 | mg/L  | 1        | 0.001 |
| Benzene                  |      | .024   | mg/L  | 1        | 0.001 |
| Carbon Tetrachloride     |      | <.0025 | mg/L  | 1        | 0.001 |
| Trichloroethene (TCE)    |      | <.0025 | mg/L  | 1        | 0.001 |
| Tetrachloroethene (PCE)  |      | <.0025 | mg/L  | 1        | 0.001 |
| Chlorobenzene            |      | <.0025 | mg/L  | 1        | 0.001 |
| 1,4-Dichlorobenzene      |      | .003   | mg/L  | 1        | 0.001 |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51     | mg/Kg | 1        | 50           | 102              | 83 - 119        |
| Toluene-d8           |      | 50.5   | mg/Kg | 1        | 50           | 101              | 87 - 115        |
| 4-Bromofluorobenzene |      | 50.5   | mg/Kg | 1        | 50           | 101              | 79 - 112        |



## REFINING COMPANY

FAX

(505) 746-5283 DIV. ORDERS  
(505) 746-5481 TRUCKING  
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159  
TELEPHONE (505) 748-3311

FAX

(505) 746-5419 ACCOUNTING  
(505) 746-5451 EXEC/MKTG  
(505) 746-5421 ENGINEERING  
(505) 746-5480 PIPELINE

November 4, 2003

Ken Marsh  
CRI  
P.O. Box 388  
Hobbs, NM 88214

Ken,

I would like to profile by process knowledge: (1) Asphalt sample cans that are RCRA clean. (2) Cooling tower sludge- which is blow sand and dirt that the wind blows into our cooling towers throughout the year at both the Artesia and Lovington Refineries. (3) Pipeline filters that the diesel that is ship from the refinery. (4) FCC cat fines that is a clay media used for air drying in our FCC Unit. All these materials have been approved in the passed and the process has not changed with any of these materials.

I would also like to renew our profile for our Chloride Guard catalysts. I have included the analytical for the Chloride Guard catalyst and analytical for the FCC cat fines.

If you have any question please feel free to call me at (505) 746-5241 or (505) 365-4298.

Sincerely,

Charlie Plymale  
Sr. Environmental Specialist

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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

Form C-138  
Revised June 10, 2003

NOV 20 2003

OIL CONSERVATION  
DIVISION

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                  | 4. Generator Plains All American Pipeline, LP |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5. Originating Site Midland, Texas            |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6. Transporter CRI                            |
| 7. Location of Material (Street Address or ULSTR) 1301 S. County Rd, Odessa, TX                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8. State Texas                                |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                               |

BRIEF DESCRIPTION OF MATERIAL:

RE: 11-14-03 A

Judkins HCA Hydro test water. Fresh water used for Hydro Testing Pipeline.

Enclosed is analytical, non-exempt waste form and chain-of-custody.

Estimated Volume 4000 bbls/annually Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy  
This Expires 11-13-04 mjh

SIGNATURE Kim Flowers TITLE: Rep DATE: 11-14-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com



(This space for State Use)

APPROVED BY: [Signature] TITLE: Enviro Engr DATE: 11.17.03

APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 11-14-03

11-14-03-3

Nov 14 03 11:40a

Basin Division

432-687-4914

p.2

Nov 13 03 03:10p

C R I

5053933615

p.2

CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR All American P/LADDRESS 1301 South County Rd 1150 Midland, TX 79706GENERATING SITE South Side of Odessa TexasCOUNTY Ector STATE TxTYPE OF WASTE Hydro Test WaterESTIMATED VOLUME 3840GENERATING PROCESS Fresh water used for Hydro-  
Testing Pipeline

REMARKS \_\_\_\_\_

NMOC FACILITY CRI

TRUCKING COMPANY \_\_\_\_\_

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Brad Fivco  
SIGNATURENAME Brad Fivco  
PRINTEDADDRESS 1301 S. County Road 1150Midland Texas 79706DATE 11-13-03

22,0°C

## ANALYTICAL REPORT

### Prepared for:

Wayne Roberts  
Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

Project: Judkins HCA Hydro Test

PO#:

Order#: G0307851

Report Date: 11/11/2003

### Certificates

US EPA Laboratory Code TX00158



# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Wayne Roberts  
Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

Order#: G0307851  
Project:  
Project Name: Judkins HCA Hydro Test  
Location: None Given

Lab ID: 0307851-01  
Sample ID: Judkins 1/ 10 & 2/ 10 Hdy Test

### RCI

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> | <u>Dilution</u><br><u>Factor</u> | <u>RL</u> | <u>Method</u> | <u>Date</u><br><u>Analyzed</u> | <u>Analyst</u> |
|------------------|---------------|--------------|----------------------------------|-----------|---------------|--------------------------------|----------------|
| Ignitability     | >100.0        | C            | 1                                | N/A       | 1010          | 11/7/03                        | JLH            |
| pH               | 7.52          | pH Units     | 1                                | N/A       | 9045C         | 11/5/03                        | SB             |
| Reactive Cyanide | <0.09         | mg/l         | 1                                | 0.09      | SW846 CH.7    | 11/8/03                        | SB             |
| Reactive Sulfide | <5.00         | mg/l         | 1                                | 5.00      | SW846 CH.7    | 11/8/03                        | SB             |

### Test Parameters

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> | <u>Dilution</u><br><u>Factor</u> | <u>RL</u> | <u>Method</u> | <u>Date</u><br><u>Analyzed</u> | <u>Analyst</u> |
|------------------|---------------|--------------|----------------------------------|-----------|---------------|--------------------------------|----------------|
| TOX              | 0.107         | mg/L         | 4                                | 0.040     | 2820          | 11/7/03                        | SUB            |

### Approval:

Raland K. Tuttle, Lab Director, QA Officer  
Celey D. Keene, Org. Tech. Director  
Jeanne McMurrey, Inorg. Tech. Director  
Sandra Biezugbe, Lab Tech.  
Sara Molina, Lab Tech.

Date

RL = Reporting Limit      N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Wayne Roberts  
Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

Order#: G0307851  
Project:  
Project Name: Judkins HCA Hydro Test  
Location: None Given

Lab ID: 0307851-01  
Sample ID: Judkins 1/10 & 2/10 Hdy Test

### ***METALS RCRA 7 TCLP***

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> | <u>Dilution</u> |           | <u>Method</u> | <u>Date</u>     |                 | <u>Analyst</u> |
|------------------|---------------|--------------|-----------------|-----------|---------------|-----------------|-----------------|----------------|
|                  |               |              | <u>Factor</u>   | <u>RL</u> |               | <u>Prepared</u> | <u>Analyzed</u> |                |
| Arsenic          | <0.008        | mg/L         | 1               | 0.008     | 1311/6010B    | 11/05/2003      | 11/5/03         | SM             |
| Barium           | 0.053         | mg/L         | 1               | 0.001     | 1311/6010B    | 11/05/2003      | 11/5/03         | SM             |
| Cadmium          | <0.001        | mg/L         | 1               | 0.001     | 1311/6010B    | 11/05/2003      | 11/5/03         | SM             |
| Chromium         | <0.002        | mg/L         | 1               | 0.002     | 1311/6010B    | 11/05/2003      | 11/5/03         | SM             |
| Lead             | <0.011        | mg/L         | 1               | 0.011     | 1311/6010B    | 11/05/2003      | 11/5/03         | SM             |
| Selenium         | <0.004        | mg/L         | 1               | 0.004     | 1311/6010B    | 11/05/2003      | 11/5/03         | SM             |
| Silver           | <0.002        | mg/L         | 1               | 0.002     | 1311/6010B    | 11/05/2003      | 11/5/03         | SM             |

### ***Test Parameters***

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> | <u>Dilution</u> |           | <u>Method</u> | <u>Date</u>     |                 | <u>Analyst</u> |
|------------------|---------------|--------------|-----------------|-----------|---------------|-----------------|-----------------|----------------|
|                  |               |              | <u>Factor</u>   | <u>RL</u> |               | <u>Prepared</u> | <u>Analyzed</u> |                |
| Mercury, TCLP    | <0.0005       | mg/L         | 1               | 0.0005    | 1311/7470     | 11/05/2003      | 11/5/03         | SM             |

#### **Approval:**

Raland K. Tuttle, Lab Director, QA Officer  
Celey D. Keene, Org. Tech. Director  
Jeanne McMurrey, Inorg. Tech. Director  
Sandra Biezugbe, Lab Tech.  
Sara Molina, Lab Tech.

Date

N/A = Not Applicable      RL = Reporting Limit

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765    Ph: 915-563-1800

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Wayne Roberts  
Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

Order#: G0307851  
Project:  
Project Name: Judkins HCA Hydro Test  
Location: None Given

Lab ID: 0307851-01  
Sample ID: Judkins 1/ 10 & 2/ 10 Hdy Test

### 8015M

| Method<br>Blank | Date<br>Prepared | Date<br>Analyzed | Sample<br>Amount | Dilution<br>Factor | Analyst | Method |
|-----------------|------------------|------------------|------------------|--------------------|---------|--------|
|                 |                  | 11/4/03          | 1                | 1                  | JLH     | 8015M  |

| Parameter     | Result<br>mg/L | RL   |
|---------------|----------------|------|
| GRO, C6-C12   | 4.35           | 3.00 |
| DRO, >C12-C35 | <3.0           | 3.00 |
| TOTAL, C6-C35 | 4.35           | 3.00 |

| Surrogates         | % Recovered | QC Limits |
|--------------------|-------------|-----------|
| 1-Chlorooctane     | 86%         | 70 130    |
| 1-Chlorooctadecane | 90%         | 70 130    |

### TCLP Benzene 8021B,1311

| Method<br>Blank | Date<br>Prepared | Date<br>Analyzed | Sample<br>Amount | Dilution<br>Factor | Analyst | Method     |
|-----------------|------------------|------------------|------------------|--------------------|---------|------------|
| 0007358-02      | 11/5/03          | 11/6/03          | 1                | 1                  | CK      | 1311/8021B |

| Parameter | Result<br>mg/L | RL    |
|-----------|----------------|-------|
| Benzene   | 0.283          | 0.001 |

| Surrogates         | % Recovered | QC Limits |
|--------------------|-------------|-----------|
| aaa-Toluene        | 157%        | 80 120    |
| Bromofluorobenzene | 112%        | 80 120    |

#### Approval:

Raland K. Tuttle, Lab Director, QA Officer  
Celey D. Keene, Org. Tech. Director  
Jeanne McMurrey, Inorg. Tech. Director  
Sandra Biezugbe, Lab Tech.  
Sara Molina, Lab Tech.

Date

DL = Diluted    N/A = Not    RL = Reporting Limit

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### 8015M

Order#: G0307851

|                    |         |            |           |        |          |       |         |        |
|--------------------|---------|------------|-----------|--------|----------|-------|---------|--------|
| <b>BLANK</b>       | WATER   | LAB-ID #   | Concentr. | Sample | Concentr | Spike | QC Test | Result |
| Recovery           | Pct (%) | RPD        |           |        |          |       |         |        |
|                    | WATER   |            |           | .      |          |       |         |        |
| TOTAL, C6-C35-mg/L |         | 0007332-02 |           |        | <3.0     |       |         |        |
| <b>CONTROL</b>     | WATER   | LAB-ID #   | Concentr. | Sample | Concentr | Spike | QC Test | Result |
| Recovery           | Pct (%) | RPD        |           |        |          |       |         |        |
|                    | WATER   |            |           | .      |          |       |         |        |
| TOTAL, C6-C35-mg/L |         | 0007332-03 |           | 95.2   | 92.0     | 96.6% |         |        |
| <b>CONTROL DUP</b> | WATER   | LAB-ID #   | Concentr. | Sample | Concentr | Spike | QC Test | Result |
| Recovery           | Pct (%) | RPD        |           |        |          |       |         |        |
|                    | WATER   |            |           | .      |          |       |         |        |
| TOTAL, C6-C35-mg/L |         | 0007332-04 |           | 95.2   | 94.7     | 99.5% | 2.9%    |        |
| <b>SRM</b>         | WATER   | LAB-ID #   | Concentr. | Sample | Concentr | Spike | QC Test | Result |
| Recovery           | Pct (%) | RPD        |           |        |          |       |         |        |
|                    | WATER   |            |           | .      |          |       |         |        |
| TOTAL, C6-C35-mg/L |         | 0007332-05 |           | 100    | 97.9     | 97.9% |         |        |

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### METALS RCRA 7 TCLP

Order#: G0307851

| <b>BLANK</b>       |                |                 |                  |               |                 |              |                |               |
|--------------------|----------------|-----------------|------------------|---------------|-----------------|--------------|----------------|---------------|
| <b>Recovery</b>    | <b>WATER</b>   | <b>LAB-ID #</b> | <b>Concentr.</b> | <b>Sample</b> | <b>Concentr</b> | <b>Spike</b> | <b>QC Test</b> | <b>Result</b> |
|                    | <b>Pct (%)</b> | <b>RPD</b>      |                  |               |                 |              |                |               |
|                    | <b>WATER</b>   |                 |                  |               |                 |              |                |               |
| Arsenic-mg/L       |                | 0007343-02      |                  |               | <0.008          |              |                |               |
| Barium-mg/L        |                | 0007343-02      |                  |               | <0.001          |              |                |               |
| Cadmium-mg/L       |                | 0007343-02      |                  |               | <0.001          |              |                |               |
| Chromium-mg/L      |                | 0007343-02      |                  |               | <0.002          |              |                |               |
| Lead-mg/L          |                | 0007343-02      |                  |               | <0.011          |              |                |               |
| Selenium-mg/L      |                | 0007343-02      |                  |               | <0.004          |              |                |               |
| Silver-mg/L        |                | 0007343-02      |                  |               | <0.002          |              |                |               |
| <b>CONTROL</b>     |                |                 |                  |               |                 |              |                |               |
| <b>Recovery</b>    | <b>WATER</b>   | <b>LAB-ID #</b> | <b>Concentr.</b> | <b>Sample</b> | <b>Concentr</b> | <b>Spike</b> | <b>QC Test</b> | <b>Result</b> |
|                    | <b>Pct (%)</b> | <b>RPD</b>      |                  |               |                 |              |                |               |
|                    | <b>WATER</b>   |                 |                  |               |                 |              |                |               |
| Arsenic-mg/L       |                | 0007343-03      |                  | 0.8           | 0.895           | 111.9%       |                |               |
| Barium-mg/L        |                | 0007343-03      |                  | 0.2           | 0.222           | 111.1%       |                |               |
| Cadmium-mg/L       |                | 0007343-03      |                  | 0.2           | 0.218           | 109.1%       |                |               |
| Chromium-mg/L      |                | 0007343-03      |                  | 0.2           | 0.221           | 110.5%       |                |               |
| Lead-mg/L          |                | 0007343-03      |                  | 1.1           | 1.24            | 112.7%       |                |               |
| Selenium-mg/L      |                | 0007343-03      |                  | 0.4           | 0.442           | 110.5%       |                |               |
| Silver-mg/L        |                | 0007343-03      |                  | 0.1           | 0.092           | 92.1%        |                |               |
| <b>CONTROL DUP</b> | <b>WATER</b>   | <b>LAB-ID #</b> | <b>Concentr.</b> | <b>Sample</b> | <b>Concentr</b> | <b>Spike</b> | <b>QC Test</b> | <b>Result</b> |
| <b>Recovery</b>    | <b>Pct (%)</b> | <b>RPD</b>      |                  |               |                 |              |                |               |
|                    | <b>WATER</b>   |                 |                  |               |                 |              |                |               |
| Arsenic-mg/L       |                | 0007343-04      |                  | 0.8           | 0.902           | 112.7%       | 0.8%           |               |
| Barium-mg/L        |                | 0007343-04      |                  | 0.2           | 0.225           | 112.5%       | 1.3%           |               |
| Cadmium-mg/L       |                | 0007343-04      |                  | 0.2           | 0.220           | 110.1%       | 0.9%           |               |
| Chromium-mg/L      |                | 0007343-04      |                  | 0.2           | 0.218           | 109.1%       | 1.4%           |               |
| Lead-mg/L          |                | 0007343-04      |                  | 1.1           | 1.26            | 114.5%       | 1.6%           |               |
| Selenium-mg/L      |                | 0007343-04      |                  | 0.4           | 0.450           | 112.5%       | 1.8%           |               |
| Silver-mg/L        |                | 0007343-04      |                  | 0.1           | 0.093           | 93.1%        | 1.1%           |               |
| <b>SRM</b>         | <b>WATER</b>   | <b>LAB-ID #</b> | <b>Concentr.</b> | <b>Sample</b> | <b>Concentr</b> | <b>Spike</b> | <b>QC Test</b> | <b>Result</b> |
| <b>Recovery</b>    | <b>Pct (%)</b> | <b>RPD</b>      |                  |               |                 |              |                |               |
|                    | <b>WATER</b>   |                 |                  |               |                 |              |                |               |
| Arsenic-mg/L       |                | 0007343-05      |                  | 1             | 1.05            | 105.1%       |                |               |
| Barium-mg/L        |                | 0007343-05      |                  | 1             | 1.04            | 104.1%       |                |               |
| Cadmium-mg/L       |                | 0007343-05      |                  | 1             | 1.06            | 106.1%       |                |               |
| Chromium-mg/L      |                | 0007343-05      |                  | 1             | 1.07            | 107.1%       |                |               |
| Lead-mg/L          |                | 0007343-05      |                  | 1             | 1.09            | 109.1%       |                |               |
| Selenium-mg/L      |                | 0007343-05      |                  | 1             | 1.08            | 108.1%       |                |               |
| Silver-mg/L        |                | 0007343-05      |                  | 0.5           | 0.457           | 91.4%        |                |               |

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### RCI

Order#: G0307851

**BLANK**

Recovery

WATER  
Pct (%)  
WATERLAB-ID #  
RPD

Concentr.

Sample

Concentr

Spike

QC Test Result

pH-pH Units

0007329-01

5.36

Reactive Cyanide-mg/l

0007379-01

&lt;0.09

Reactive Sulfide-mg/l

0007380-01

&lt;5.00

**CONTROL**

Recovery

WATER  
Pct (%)  
WATERLAB-ID #  
RPD

Concentr.

Sample

Concentr

Spike

QC Test Result

Reactive Cyanide-mg/l

0007379-02

0.1

0.087

87.7%

Reactive Sulfide-mg/l

0007380-02

22.2

25.6

115.3%

**CONTROL DUP**

Recovery

WATER  
Pct (%)  
WATERLAB-ID #  
RPD

Concentr.

Sample

Concentr

Spike

QC Test Result

Reactive Cyanide-mg/l

0007379-03

0.1

0.084

84.7%

3.5%

Reactive Sulfide-mg/l

0007380-03

22.2

25.4

114.4%

0.8%

**DUPLICATE**

Recovery

WATER  
Pct (%)  
WATERLAB-ID #  
RPD

Concentr.

Sample

Concentr

Spike

QC Test Result

Ignitability-C

0307851-01

0

&gt;100.0

0.0%

pH-pH Units

0307851-01

7.52

7.53

0.1%

Reactive Cyanide-mg/l

0307851-01

0

&lt;0.09

0.0%

Reactive Sulfide-mg/l

0307851-01

0

&lt;5.00

0.0%

**SRM**

Recovery

WATER  
Pct (%)  
WATERLAB-ID #  
RPD

Concentr.

Sample

Concentr

Spike

QC Test Result

pH-pH Units

0007329-04

10

10.03

100.3%

Reactive Cyanide-mg/l

0007379-04

1

1.03

103.7%

Reactive Sulfide-mg/l

0007380-04

680

720

105.9%

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****TCLP Benzene 8021B,1311****Order#: G0307851**

|                    |         |            |           |        |          |       |         |        |
|--------------------|---------|------------|-----------|--------|----------|-------|---------|--------|
| <b>BLANK</b>       |         |            |           |        |          |       |         |        |
| Recovery           | WATER   | LAB-ID #   | Concentr. | Sample | Concentr | Spike | QC Test | Result |
|                    | Pct (%) | RPD        |           |        |          |       |         |        |
|                    | WATER   |            |           |        |          |       |         |        |
| Benzene-mg/L       |         | 0007358-02 |           |        | <0.001   |       |         |        |
| <b>CONTROL</b>     |         |            |           |        |          |       |         |        |
| Recovery           | WATER   | LAB-ID #   | Concentr. | Sample | Concentr | Spike | QC Test | Result |
|                    | Pct (%) | RPD        |           |        |          |       |         |        |
|                    | WATER   |            |           |        |          |       |         |        |
| Benzene-mg/L       |         | 0007358-03 |           | 0.1    | 0.085    | 85.%  |         |        |
| <b>CONTROL DUP</b> |         |            |           |        |          |       |         |        |
| Recovery           | WATER   | LAB-ID #   | Concentr. | Sample | Concentr | Spike | QC Test | Result |
|                    | Pct (%) | RPD        |           |        |          |       |         |        |
|                    | WATER   |            |           |        |          |       |         |        |
| Benzene-mg/L       |         | 0007358-04 |           | 0.1    | 0.088    | 88.%  | 3.5%    |        |
| <b>SRM</b>         |         |            |           |        |          |       |         |        |
| Recovery           | WATER   | LAB-ID #   | Concentr. | Sample | Concentr | Spike | QC Test | Result |
|                    | Pct (%) | RPD        |           |        |          |       |         |        |
|                    | WATER   |            |           |        |          |       |         |        |
| Benzene-mg/L       |         | 0007358-05 |           | 0.1    | 0.088    | 88.%  |         |        |

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### Test Parameters

Order#: G0307851

| <b>BLANK</b>       |                           |                 |           |        |          |        |         |        |
|--------------------|---------------------------|-----------------|-----------|--------|----------|--------|---------|--------|
| Recovery           | WATER<br>Pet (%)<br>WATER | LAB-ID #<br>RPD | Concentr. | Sample | Concentr | Spike  | QC Test | Result |
| Mercury, TCLP-mg/L |                           | 0007339-01      |           |        | <0.0005  |        |         |        |
| TOX-mg/L           |                           | 0007390-01      |           |        | <0.010   |        |         |        |
| <b>CONTROL</b>     |                           |                 |           |        |          |        |         |        |
| Recovery           | WATER<br>Pet (%)<br>WATER | LAB-ID #<br>RPD | Concentr. | Sample | Concentr | Spike  | QC Test | Result |
| Mercury, TCLP-mg/L |                           | 0007339-02      |           | 0.001  | 0.00109  | 109.%  |         |        |
| TOX-mg/L           |                           | 0007390-02      |           | 0.1    | 0.106    | 106.%  |         |        |
| <b>CONTROL DUP</b> |                           |                 |           |        |          |        |         |        |
| Recovery           | WATER<br>Pet (%)<br>WATER | LAB-ID #<br>RPD | Concentr. | Sample | Concentr | Spike  | QC Test | Result |
| Mercury, TCLP-mg/L |                           | 0007339-03      |           | 0.001  | 0.00109  | 109.%  | 0.%     |        |
| TOX-mg/L           |                           | 0007390-03      |           | 0.1    | 0.106    | 106.%  | 0.%     |        |
| <b>SRM</b>         |                           |                 |           |        |          |        |         |        |
| Recovery           | WATER<br>Pet (%)<br>WATER | LAB-ID #<br>RPD | Concentr. | Sample | Concentr | Spike  | QC Test | Result |
| Mercury, TCLP-mg/L |                           | 0007339-04      |           | 0.001  | 0.00095  | 95.%   |         |        |
| TOX-mg/L           |                           | 0007390-04      |           | 0.25   | 0.266    | 106.4% |         |        |



# ENVIRONMENTAL LAB OF TEXAS

## SAMPLE WORK LIST

Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702  
687-4914

Order#: G0307851  
Project:  
Project Name: Judkins HCA Hydro Test  
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

| <u>Lab ID:</u> | <u>Sample :</u>         | <u>Matrix:</u>        | <u>Date / Time</u><br><u>Collected</u> | <u>Date / Time</u><br><u>Received</u> | <u>Container</u> | <u>Preservative</u> |
|----------------|-------------------------|-----------------------|----------------------------------------|---------------------------------------|------------------|---------------------|
| 0307851-01     | Hdy Test                | Judkins 1/ 10 & 2/ 10 | WATER                                  | 11/4/03                               | 11/4/03          | gallon plastic      |
|                | Hdy Test                |                       | 14:30                                  | 15:00                                 |                  | None                |
|                | <u>Lab Testing:</u>     | Rejected: No          | Temp                                   | 22.0 C                                |                  |                     |
|                | 8015M                   |                       |                                        |                                       |                  |                     |
|                | METALS RCRA 7 TCLP      |                       |                                        |                                       |                  |                     |
|                | RCI                     |                       |                                        |                                       |                  |                     |
|                | TCLP Benzene 8021B,1311 |                       |                                        |                                       |                  |                     |
|                | Mercury, TCLP           |                       |                                        |                                       |                  |                     |
|                | TOX                     |                       |                                        |                                       |                  |                     |

# CASE NARRATIVE

## ENVIRONMENTAL LAB OF TEXAS

**Prepared for:**

Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

**Order#: G0307851****Project: Judkins HCA Hydro Test**

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

| <b>SAMPLE ID</b>      | <b>LAB ID</b> | <b>MATRIX</b> | <b>Date Collected</b> | <b>Date Received</b> |
|-----------------------|---------------|---------------|-----------------------|----------------------|
| Judkins 1/ 10 & 2/ 10 | 0307851-01    | WATER         | 11/04/2003            | 11/04/2003           |

**Surrogate recoveries on the 8021B TCLP Benzene are outside control limits due to matrix interference.  
(0307851-01)**

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

**Approved By:****Environmental Lab of Texas I, Ltd.****Date:**

RECEIVED

District I  
162 N. French Dr., Hobbs, NM 88240

District II  
1301 W. Grand Avenue, Artesia, NM 88210

District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                          | 4. Generator Navajo Refining         |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5. Originating Site Artesia Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6. Transporter D & J                 |
| 7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8. State New Mexico                  |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                      |

### BRIEF DESCRIPTION OF MATERIAL:

RE: 11-10-03B (renewal of previous C-138)

Cooling Tower Sludge generated by sand and dirt being blown into cooling tower basins.

Enclosing request for approval, previous C-138, and analytical data. *Dated Nov 2, 1999*  
*is now 4 years old*

This material has been approved in the past. *This Approval is Good For this turn around only at the Refinery. Please Submit New analytical with the next Request.*

Estimated Volume 5000 yards/year Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy



SIGNATURE Kim Flowers  
Waste Management Facility Authorized Agent

TITLE: Rep DATE: 11-10-03

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

(This space for State Use)

APPROVED BY: ENVIRONMENTAL ENGINEER TITLE: \_\_\_\_\_ DATE: 11-12-03

APPROVED BY: Monty J. H. TITLE: Environmental Geologist DATE: 11/14/03

11/14/03 -1



## REFINING COMPANY

FAX

(505) 746-5283 DIV. ORDERS  
(505) 746-5481 TRUCKING  
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159  
TELEPHONE (505) 748-3311

FAX

(505) 746-5419 ACCOUNTING  
(505) 746-5451 EXEC/MKTG  
(505) 746-5421 ENGINEERING  
(505) 746-5480 PIPELINE

November 4, 2003

Ken Marsh  
CRI  
P.O. Box 388  
Hobbs, NM 88214

Ken,

I would like to profile by process knowledge: (1) Asphalt sample cans that are RCRA clean. (2) Cooling tower sludge- which is blow sand and dirt that the wind blows into our cooling towers throughout the year at both the Artesia and Lovington Refineries. (3) Pipeline filters that the diesel that is ship from the refinery. (4) FCC cat fines that is a clay media used for air drying in our FCC Unit. All these materials have been approved in the passed and the process has not changed with any of these materials.

I would also like to renew our profile for our Chloride Guard catalysts. I have included the analytical for the Chloride Guard catalyst and analytical for the FCC cat fines.

If you have any question please feel free to call me at (505) 746-5241 or (505) 365-4298.

Sincerely

Charlie Plymale  
Sr. Environmental Specialist

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company/Lea Refining Co.

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy/Lea

STATE: NM

TYPE OF WASTE: Cooling Tower Sludge

ESTIMATED VOLUME: 5000 yards/ Year

GENERATING PROCESS: This is blow sand and dirt that has blown into our  
Cooling tower basins.

REMARKS: This material has been approved in the past

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: D&J Waste Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: [Signature]

SIGNATURE

NAME: Charlie Plymale

PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 11/6/03

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  
1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil and Natural Resources

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

Form C-138  
Revised March 17, 1995

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4. Generator Navajo Refining Company               |
| Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5. Originating Site Artesia and Lovington Facility |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter Champion                            |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8. State New Mexico                                |
| 7. Location of Material (Street Address or ULSTR) 501 East Main, Artesia                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | New Mexico                                         |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator, one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                    |

### BRIEF DESCRIPTION OF MATERIAL:

06-02-01

Cooling Tower Sludge and debris generated from the cleaning out of the bottom of the cooling tower and the debris from the changing out of boards in and on the cooling tower during turnaround at Navajo's Artesia and Lovington facilities at approximately 10 yards per month for each facility.

I am enclosing analytical data, certificate of waste status, chain of custody, and copy of previous C-138 to extend this process for the year 2001.

Estimated Volume see above cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Carmella Van Maanen TITLE: Bookkeeper DATE: 6-13-01  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

|                    |              |             |
|--------------------|--------------|-------------|
| APPROVED BY: _____ | TITLE: _____ | DATE: _____ |
| APPROVED BY: _____ | TITLE: _____ | DATE: _____ |

# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296  
El Paso, Texas 79922 888•588•3443  
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298  
915•585•3443 FAX 915•585•4944

## ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Bryan Madrid  
501 E. Main  
Artesia, NM 88210

Extraction Date: 11/07/99  
Analysis Date: 11/08/99  
Sampling Date: 11/02/99  
Sample Condition: I & C  
Sample Received by: VW  
Project Name: N/A

November 16, 1999  
Receiving Date: 11/03/99  
Sample Type: Sludge  
Project #: N/A  
Project Location: N/A

| TCLP VOLATILES (mg/L) | EPA<br>Limit | Reporting<br>Limit | T134786<br>S.P. Coolong Tower | QC  | RPD | %EA | %IA |
|-----------------------|--------------|--------------------|-------------------------------|-----|-----|-----|-----|
| Vinyl chloride        | 0.20         | 0.05               | ND                            | 105 | 4   | 107 | 105 |
| 1,1-Dichloroethene    | 0.70         | 0.05               | ND                            | 97  | 2   | 133 | 97  |
| Methyl Ethyl Ketone   | 200.0        | 0.5                | ND                            | 113 | 3   | 104 | 113 |
| Chloroform            | 6.00         | 0.05               | ND                            | 87  | 1   | 100 | 87  |
| 1,2-Dichloroethane    | 0.50         | 0.05               | ND                            | 80  | 0   | 88  | 80  |
| Benzene               | 0.50         | 0.05               | 0.08                          | 107 | 2   | 125 | 107 |
| Carbon Tetrachloride  | 0.50         | 0.05               | ND                            | 102 | 0   | 115 | 102 |
| Trichloroethene       | 0.50         | 0.05               | ND                            | 103 | 0   | 119 | 103 |
| Tetrachloroethene     | 0.70         | 0.05               | ND                            | 111 | 4   | 128 | 111 |
| Chlorobenzene         | 100.00       | 0.05               | ND                            | 99  | 2   | 108 | 99  |
| 1,4-Dichlorobenzene   | 7.50         | 0.05               | ND                            | 98  | 1   | 106 | 98  |

| SURROGATES           | % Recovery |
|----------------------|------------|
| Dibromofluoromethane | 87         |
| Toluene-d8           | 107        |
| 4-Bromofluorobenzene | 98         |

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.  
CHEMIST: JG

  
Director, Dr. Blair Leftwich

11-16-99  
Date

# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424  
El Paso, Texas 79922

800•378•1296  
888•588•3443

806•794•1296  
915•585•3443

FAX 806•794•1298  
FAX 915•585•4944

E-Mail: lab@traceanalysis.com

November 16, 1999  
Receiving Date: 11/03/99  
Sample Type: Sludge  
Project #: N/A  
Project Location: N/A

ANALYTICAL RESULTS FOR  
NAVAJO REFINING CO.  
Attention: Darrell Moore  
501 E. Main  
Artesia, NM 88210

Extraction Date: 11/03/99  
Analysis Date: 11/04/99  
Sampling Date: 11/02/99  
Sample Condition: I & C  
Sample Received by: VW  
Project Name: N/A

| TCLP Semi-Volatiles (mg/L)     | EPA<br>LIMIT | Reporting<br>Limit | T134786<br>S.P. Cooling Tower | QC | RPD | %EA | %IA |
|--------------------------------|--------------|--------------------|-------------------------------|----|-----|-----|-----|
| Pyridine                       | 5.0          | 0.05               | ND                            | 66 | 1   | 39  | 109 |
| 1,4-Dichlorobenzene            | 7.5          | 0.05               | ND                            | 63 | 2   | 50  | 104 |
| o-Cresol                       | 200.0        | 0.05               | ND                            | 59 | 2   | 47  | 98  |
| m,p-Cresol                     | 200.0        | 0.05               | ND                            | 59 | 3   | 44  | 98  |
| Hexachloroethane               | 3.0          | 0.05               | ND                            | 63 | 1   | 51  | 105 |
| Nitrobenzene                   | 2.0          | 0.05               | ND                            | 63 | 3   | 65  | 105 |
| Hexachlorobutadiene            | 0.5          | 0.05               | ND                            | 65 | 2   | 56  | 108 |
| 2,4,6-Trichlorophenol          | 2.0          | 0.05               | ND                            | 62 | 3   | 58  | 103 |
| 2,4,5-Trichlorophenol          | 400.0        | 0.05               | ND                            | 59 | 2   | 60  | 98  |
| 2,4-Dinitrotoluene             | 0.13         | 0.05               | ND                            | 68 | 9   | 63  | 113 |
| 2,4-Dichlorophenoxyacetic acid | 10.0         | 0.05               | ND                            | 68 | 10  | 69  | 113 |
| Hexachlorobenzene              | 0.13         | 0.05               | ND                            | 64 | 4   | 75  | 107 |
| 2,4,5-TP                       | 1.0          | 0.05               | ND                            | 66 | 4   | 80  | 110 |
| Pentachlorophenol              | 100.0        | 0.05               | ND                            | 63 | 5   | 68  | 104 |

| SURROGATES           | % Recovery |
|----------------------|------------|
| 2-Fluorophenol       | 48         |
| Phenol-d6            | 32         |
| Nitrobenzene-d5      | 70         |
| 2-Fluorobiphenyl     | 70         |
| 2,4,6-Tribromophenol | 86         |
| Terphenyl-d14        | 73         |

ND = Not Detected

METHODS: EPA SW 846-1311, 8270

CHEMIST: MA



Director, Dr. Blair Leftwich

11-16-99

Date





# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
El Paso, Texas 79922 888-588-3443 915-585-3443 FAX 915-585-4944  
E-Mail: lab@traceanalysis.com

November 16, 1999  
Receiving Date: 11/03/99  
Sample Type: Sludge  
Project #: N/A  
Project Location: N/A

Sampling Date: 11/02/99  
Sample Condition: I & C  
Sample Received by: VW  
Project Name: N/A

## ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88210

| TA#                   | FIELD CODE         | TCLP<br>As<br>(mg/L) | TCLP<br>Ba<br>(mg/L) | TCLP<br>Cd<br>(mg/L) | TCLP<br>Cr<br>(mg/L) | TCLP<br>Pb<br>(mg/L) | TCLP<br>Se<br>(mg/L) | TCLP<br>Ag<br>(mg/L) | TCLP<br>Hg<br>(mg/L) |
|-----------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                       | EPA LIMIT =        | 5.0                  | 100                  | 1.0                  | 5.0                  | 5.0                  | 1.0                  | 5.0                  | 0.20                 |
| T134785               | TK 435             | 0.13                 | <0.10                | <0.02                | 0.05                 | <0.10                | <0.10                | <0.05                | <0.010               |
| T134786               | S.P. Cooling Tower | <0.10                | <0.10                | <0.02                | <0.05                | <0.10                | <0.10                | <0.05                | <0.010               |
| ICV                   |                    | 0.99                 | 20.3                 | 0.50                 | 1.00                 | 2.48                 | 2.47                 | 0.99                 | 0.00517              |
| CCV                   |                    | 0.98                 | 20.4                 | 0.50                 | 1.00                 | 2.48                 | 2.47                 | 0.99                 | 0.00526              |
| REPORTING LIMIT       |                    | 0.10                 | 0.10                 | 0.02                 | 0.05                 | 0.10                 | 0.10                 | 0.05                 | 0.010                |
| RPD                   |                    | 1                    | 1                    | 1                    | 0                    | 1                    | 1                    | 4                    | 1                    |
| % Extraction Accuracy |                    | 97                   | 84                   | 99                   | 103                  | 99                   | 89                   | 98                   | 86                   |
| % Instrument Accuracy |                    | 98                   | 101                  | 100                  | 100                  | 99                   | 99                   | 99                   | 104                  |

EXTRACTION DATE: 11/08/99 11/08/99 11/08/99 11/08/99 11/08/99 11/07/99  
ANALYSIS DATE: 11/10/99 11/10/99 11/10/99 11/10/99 11/10/99 11/09/99

METHODS: EPA 846-1311, 6010B, 7470A

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TOTAL METALS SPIKE: 10 mg/L As, Se Cd, Cr, Pb, Ba: 1.20 mg/L Ag Hg SPIKE 0.050 mg/L

TOTAL METALS CV: 1.0 mg/L As, Ag, Cr; 20 mg/L Ba; 0.50 mg/L Cd; 2.50 mg/L Se, Pb; Hg CV: 0.0050 mg/L

Director Dr. Blair Leftwich

Date

11-16-99

# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
 E-Mail: lab@traceanalysis.com

November 16, 1999

Receiving Date: 11/03/99

Sample Type: Sludge

Project #: N/A

Project Location: N/A

## ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Byran Madrid

501 E. Main

Artesia, NM 88210

Extraction Date: 11/15/99

Analysis Date: 11/15/99

Sampling Date: 11/02/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

| TA#                   | Field Code         | REACTIVITY   | SULFIDES<br>(ppm) | CYANIDES<br>(ppm) | CORROSIVITY   | pH<br>(s.u.) | IGNITABILITY  |
|-----------------------|--------------------|--------------|-------------------|-------------------|---------------|--------------|---------------|
|                       | EPA LIMIT =        | ---          | 500               | 250               | ---           | <2 >12.5     | ---           |
| T134785               | TK 435             | Non-reactive | <10               | 10                | Non-corrosive | 7.73         | Non-Ignitable |
| T134786               | S.P. Cooling Tower | Non-reactive | 100               | 30                | Non-corrosive | 6.21         | Non-Ignitable |
| RPD                   |                    | 0            | 0                 | 0                 | 0             | 0            | 0             |
| % Extraction Accuracy |                    | 100          | 95                | 100               | 100           | 100          | 100           |
| % Instrument Accuracy |                    | ---          | ---               | ---               | ---           | ---          | ---           |

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

CHEMIST: JM

*BE*

Director, Dr. Blair Leftwich

11-16-99

Date

6701 Aberdeen Avenue, Ste. 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

# TraceAnalysis, Inc.

4725 Ripley Dr., Ste A  
El Paso, Texas 79922-1028  
Tel: (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

Company Name:

Address: (Street, City, Zip)

Phone #:

(805) 748-3311

Address: (Street, City, Zip)

Fax #:

501 E. Main Ave. 88210 (505) 748-9077

Contact Person:

Beyan Mario

Invoice to:

(if different from above)

Project #:

Project Name:

Project Location:

Sampler Signature

Matrix

PRESERVATIVE METHOD

SAMPLING

FIELD CODE

LAB USE ONLY

# CONTAINERS

Volume/Amount

WATER

SOIL

AIR

SLUDGE

HCL

HNO3

ICE

NONE

DATE

TIME

MTBE 8021B/602

BTEX 8021B/602

TPH 418.1/TX1005

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC-MS Vol. 8260B/624

GC/MS Semi. Vol. 8270C/625

PCB's 8082/608

Pesticides 8081A/608

BOD, TSS, pH

Turn Around Time if different from standard

Hold

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LABORATORY ID: 99110330

### ANALYSIS REQUEST

(Circle or Specify Method No.)

REMARKS:

11/17

Relinquished by:

Date:

Time:

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

District I  
1623 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  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED

Form C-138  
Revised March 17, 1995

JUN 29 2001

Submit Original:  
Plus 1 Copy  
to Appropriate  
District Office  
Environmental Bureau  
Oil Conservation Division

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br>Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                            | 4. Generator Navajo Refining Company<br>5. Originating Site Artesia and Lovington Facility |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6. Transporter Champion                                                                    |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8. State New Mexico                                                                        |
| 7. Location of Material (Street Address or ULSTR) 501 East Main, Artesia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | New Mexico                                                                                 |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator, one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                                                            |

### BRIEF DESCRIPTION OF MATERIAL:

06-02-01

Cooling Tower Sludge and debris generated from the cleaning out of the bottom of the cooling tower and the debris from the changing out of boards in and on the cooling tower during turnaround at Navajo's Artesia and Lovington facilities at approximately 10 yards per month for each facility.

I am enclosing analytical data, certificate of waste status, chain of custody, and copy of previous C-138 to extend this process for the year 2001.

Estimated Volume see above cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Carmella Van Maanen TITLE: Bookkeeper DATE: 6-13-01  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

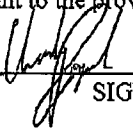
(This space for State Use)

APPROVED BY: Monty J. Kelly TITLE: Environmental Geologist DATE: 7-2-01  
APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining CompanyADDRESS: 501 East MainGENERATING SITE: Navajo Refining Company—Artesia and LovingtonCOUNTY: Lea and EddySTATE: NMTYPE OF WASTE: Cooling tower sludgeESTIMATED VOLUME: 10 yardsGENERATING PROCESS: Dirt and scale are accumulated in the bottom of the cooling tower during normal operation. Bottom of cooling tower cleaned out during turnaround.REMARKS: Analysis enclosedNMOCD FACILITY: Controlled Recovery IncorporatedTRUCKING COMPANY: Champion

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT:  SIGNATURENAME: Charlie Plymale  
PRINTEDADDRESS: 501 EAST MAINARTESIA, NM 88210DATE: 6/11/01

District I - (505) 393-0101  
P. O. Box 1980  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
311 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV - (505) 827-7131

New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

RECEIVED

DEC 01 1999

Environmental Bureau  
Oil Conservation Division

Form C-1  
Originated 8/8

Submit Original  
Plus 1 Copy  
to appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4. Generator NAVAJO REFINING CO.             |
| Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5. Originating Site 501 E. MAIN, ARTESIA, NM |
| 2. Management Facility Destination CONTROLLED RECOVERY, INC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6. Transporter CRI & LEA LAND, INC.          |
| 3. Address of Facility Operator P. O. BOX 388, HOBBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8. State NEW MEXICO                          |
| 7. Location of Material (Street Address or ULSTR) 501 E. MAIN<br>ARTESIA, NM 88211                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                              |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br><br>All transporters must certify the wastes delivered are only those consigned for transport. |                                              |

BRIEF DESCRIPTION OF MATERIAL:

COOLING TOWER SLUDGE AND DEBRIS GENERATED FROM THE CLEANING OUT OF THE BOTTOM OF THE COOLING TOWER, AND THE DEBRIS FROM THE CHANGING OUT OF BOARDS IN AND ON THE COOLING TOWER DURING TURNAROUND. I AM ENCLOSING ANALYTICAL, CERTIFICATE OF WASTE STATUS AND CHAIN OF CUSTODY.

11-002

500 BBLs. SLUDGE  
10 YARDS DEBRIS  
Estimated Volume \_\_\_\_\_ cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy  
SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 11-29-99  
Waste Management Facility Authorized Agent  
TYPE OR PRINT NAME: KATH HARPER TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. Specialist DATE: 11-30-99  
APPROVED BY: Martinez, J. Kelly TITLE: Environmental Geologist DATE: 12-3-99



# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296  
El Paso, Texas 79922 888•588•3443  
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298  
915•585•3443 FAX 915•585•4944

## ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Bryan Madrid  
501 E. Main  
Artesia, NM 88210

Extraction Date: 11/07/99  
Analysis Date: 11/08/99  
Sampling Date: 11/02/99  
Sample Condition: I & C  
Sample Received by: VW  
Project Name: N/A

November 16, 1999  
Receiving Date: 11/03/99  
Sample Type: Sludge  
Project #: N/A  
Project Location: N/A

| TCLP VOLATILES (mg/L) | EPA<br>Limit | Reporting<br>Limit | T134786<br>S.P. Coolong Tower | QC  | RPD | %EA | %IA |
|-----------------------|--------------|--------------------|-------------------------------|-----|-----|-----|-----|
| Vinyl chloride        | 0.20         | 0.05               | ND                            | 105 | 4   | 107 | 105 |
| 1,1-Dichloroethene    | 0.70         | 0.05               | ND                            | 97  | 2   | 133 | 97  |
| Methyl Ethyl Ketone   | 200.0        | 0.5                | ND                            | 113 | 3   | 104 | 113 |
| Chloroform            | 6.00         | 0.05               | ND                            | 87  | 1   | 100 | 87  |
| 1,2-Dichloroethane    | 0.50         | 0.05               | ND                            | 80  | 0   | 88  | 80  |
| Benzene               | 0.50         | 0.05               | 0.08                          | 107 | 2   | 125 | 107 |
| Carbon Tetrachloride  | 0.50         | 0.05               | ND                            | 102 | 0   | 115 | 102 |
| Trichloroethene       | 0.50         | 0.05               | ND                            | 103 | 0   | 119 | 103 |
| Tetrachloroethene     | 0.70         | 0.05               | ND                            | 111 | 4   | 128 | 111 |
| Chlorobenzene         | 100.00       | 0.05               | ND                            | 99  | 2   | 108 | 99  |
| 1,4-Dichlorobenzene   | 7.50         | 0.05               | ND                            | 98  | 1   | 106 | 98  |

| SURROGATES           | % Recovery |
|----------------------|------------|
| Dibromofluoromethane | 87         |
| Toluene-d8           | 107        |
| 4-Bromofluorobenzene | 98         |

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.  
CHEMIST: JG



Director, Dr. Blair Leftwich

11-16-99  
Date

# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424  
El Paso, Texas 79922

800•378•1296  
888•588•3443

806•794•1296  
915•585•3443

FAX 806•794•1298  
FAX 915•585•4944

E-Mail: lab@traceanalysis.com

November 16, 1999  
Receiving Date: 11/03/99  
Sample Type: Sludge  
Project #: N/A  
Project Location: N/A

ANALYTICAL RESULTS FOR  
NAVAJO REFINING CO.  
Attention: Darrell Moore  
501 E. Main  
Artesia, NM 88210

Extraction Date: 11/03/99  
Analysis Date: 11/04/99  
Sampling Date: 11/02/99  
Sample Condition: I & C  
Sample Received by: VW  
Project Name: N/A

| TCLP Semi-Volatiles (mg/L)     | EPA<br>LIMIT | Reporting<br>Limit | T134786<br>S.P. Cooling Tower | QC | RPD | %EA | %IA |
|--------------------------------|--------------|--------------------|-------------------------------|----|-----|-----|-----|
| Pyridine                       | 5.0          | 0.05               | ND                            | 66 | 1   | 39  | 109 |
| 1,4-Dichlorobenzene            | 7.5          | 0.05               | ND                            | 63 | 2   | 50  | 104 |
| o-Cresol                       | 200.0        | 0.05               | ND                            | 59 | 2   | 47  | 98  |
| m,p-Cresol                     | 200.0        | 0.05               | ND                            | 59 | 3   | 44  | 98  |
| Hexachloroethane               | 3.0          | 0.05               | ND                            | 63 | 1   | 51  | 105 |
| Nitrobenzene                   | 2.0          | 0.05               | ND                            | 63 | 3   | 65  | 105 |
| Hexachlorobutadiene            | 0.5          | 0.05               | ND                            | 65 | 2   | 56  | 108 |
| 2,4,6-Trichlorophenol          | 2.0          | 0.05               | ND                            | 62 | 3   | 58  | 103 |
| 2,4,5-Trichlorophenol          | 400.0        | 0.05               | ND                            | 59 | 2   | 60  | 98  |
| 2,4-Dinitrotoluene             | 0.13         | 0.05               | ND                            | 68 | 9   | 63  | 113 |
| 2,4-Dichlorophenoxyacetic acid | 10.0         | 0.05               | ND                            | 68 | 10  | 69  | 113 |
| Hexachlorobenzene              | 0.13         | 0.05               | ND                            | 64 | 4   | 75  | 107 |
| 2,4,5-TP                       | 1.0          | 0.05               | ND                            | 66 | 4   | 80  | 110 |
| Pentachlorophenol              | 100.0        | 0.05               | ND                            | 63 | 5   | 68  | 104 |

| SURROGATES           | % Recovery |
|----------------------|------------|
| 2-Fluorophenol       | 48         |
| Phenol-d6            | 32         |
| Nitrobenzene-d5      | 70         |
| 2-Fluorobiphenyl     | 70         |
| 2,4,6-Tribromophenol | 86         |
| Terphenyl-d14        | 73         |

ND = Not Detected

METHODS: EPA SW 846-1311, 8270

CHEMIST: MA



Director, Dr. Blair Leftwich

11-16-99

Date





# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888-588-3443 915-585-3443 FAX 915-585-4944  
E-Mail: lab@traceanalysis.com

November 16, 1999  
Receiving Date: 11/03/99  
Sample Type: Sludge  
Project #: N/A  
Project Location: N/A  
Sampling Date: 11/02/99  
Sample Condition: I & C  
Sample Received by: VW  
Project Name: N/A

## ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88210

| TA#                   | FIELD CODE         | TCLP<br>As<br>(mg/L) | TCLP<br>Ba<br>(mg/L) | TCLP<br>Cd<br>(mg/L) | TCLP<br>Cr<br>(mg/L) | TCLP<br>Pb<br>(mg/L) | TCLP<br>Se<br>(mg/L) | TCLP<br>Ag<br>(mg/L) | TCLP<br>Hg<br>(mg/L) |
|-----------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                       | EPA LIMIT =        | 5.0                  | 100                  | 1.0                  | 5.0                  | 5.0                  | 1.0                  | 5.0                  | 0.20                 |
| T134785               | TK 435             | 0.13                 | <0.10                | <0.02                | 0.05                 | <0.10                | <0.10                | <0.05                | <0.010               |
| T134786               | S.P. Cooling Tower | <0.10                | <0.10                | <0.02                | <0.05                | <0.10                | <0.10                | <0.05                | <0.010               |
| ICV                   |                    | 0.99                 | 20.3                 | 0.50                 | 1.00                 | 2.48                 | 2.47                 | 0.99                 | 0.00517              |
| CCV                   |                    | 0.98                 | 20.4                 | 0.50                 | 1.00                 | 2.48                 | 2.47                 | 0.99                 | 0.00526              |
| REPORTING LIMIT       |                    | 0.10                 | 0.10                 | 0.02                 | 0.05                 | 0.10                 | 0.10                 | 0.05                 | 0.010                |
| RPD                   |                    | 1                    | 1                    | 1                    | 0                    | 1                    | 1                    | 4                    | 1                    |
| % Extraction Accuracy |                    | 97                   | 84                   | 99                   | 103                  | 99                   | 89                   | 98                   | 86                   |
| % Instrument Accuracy |                    | 98                   | 101                  | 100                  | 100                  | 99                   | 99                   | 99                   | 104                  |
| EXTRACTION DATE:      |                    | 11/08/99             | 11/08/99             | 11/08/99             | 11/08/99             | 11/08/99             | 11/08/99             | 11/08/99             | 11/07/99             |
| ANALYSIS DATE:        |                    | 11/10/99             | 11/10/99             | 11/10/99             | 11/10/99             | 11/10/99             | 11/10/99             | 11/10/99             | 11/09/99             |

METHODS: EPA 846-1311, 6010B, 7470A

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TOTAL METALS SPIKE: 10 mg/L As, Se Cd, Cr, Pb, Ba: 1.20 mg/L Ag Hg SPIKE 0.050 mg/L

TOTAL METALS CV: 1.0 mg/L As, Ag, Cr; 20 mg/L Ba; 0.50 mg/L Cd; 2.50 mg/L Se, Pb; Hg CV: 0.0050 mg/L

Director: Dr Blair Leftwich

Date

11-16-99

# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296  
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
 E-Mail: lab@traceanalysis.com

November 16, 1999

Receiving Date: 11/03/99

Sample Type: Sludge

Project #: N/A

Project Location: N/A

## ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88210

Extraction Date: 11/15/99

Analysis Date: 11/15/99

Sampling Date: 11/02/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

| TA#                   | Field Code         | REACTIVITY   | SULFIDES<br>(ppm) | CYANIDES<br>(ppm) | CORROSIVITY   | pH<br>(s.u.) | IGNITABILITY  |
|-----------------------|--------------------|--------------|-------------------|-------------------|---------------|--------------|---------------|
|                       | EPA LIMIT =        | ---          | 500               | 250               | ---           | <2 >12.5     | ---           |
| T134785               | TK 435             | Non-reactive | <10               | 10                | Non-corrosive | 7.73         | Non-Ignitable |
| T134786               | S.P. Cooling Tower | Non-reactive | 100               | 30                | Non-corrosive | 6.21         | Non-Ignitable |
| RPD                   |                    | 0            | 0                 | 0                 | 0             | 0            | 0             |
| % Extraction Accuracy |                    | 100          | 95                | 100               | 100           | 100          | 100           |
| % Instrument Accuracy |                    | ---          | ---               | ---               | ---           | ---          | ---           |

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

CHEMIST: JM



Director, Dr. Blair Leftwich

11-16-99

Date

Page 1 of 1

4725 Ripley Dr., Ste A  
El Paso, Texas 79922-1028  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 9910320

Phone #: (505) 748-3311

Address 88210 Fax #: (505) 748-9077

MARRIO

Project #:

**Project Name:**

Sampler Signature: Edgar Macauld

[illegible]

Date: Time:

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: 11/11/2011 Time: 11:11:11

**LAB USE ONLY**

REMARKS:

11/17

**Submission of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.C.**

Carrier # 768 268-0337-474

RECEIVED

JUN 29 2001

Environmental Bureau  
Oil Conservation Division

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE.**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                          | 4. Generator Navajo Refining Co     |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5. Originating Site Lovington, NM   |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6. Transporter D & J Waste Services |
| 7. Location of Material (Street Address or ULSTR) Lovington Hwy, Lovington, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8. State New Mexico                 |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                     |

**BRIEF DESCRIPTION OF MATERIAL:**

RE: 10-24-03 (renewal of previous C-138)

Hydrocarbon contaminated soil generated from cleanups around refinery and excavation for gas oil hydrotreater unit.

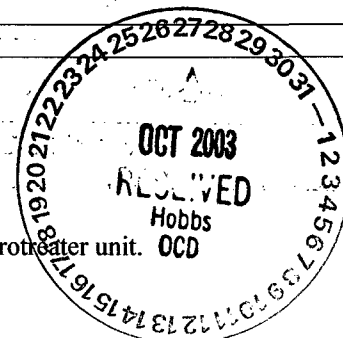
*For one year or until 11-2-04 myk*

Estimated Volume approx. 60 yards monthly Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 10-24-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com



|                                 |                                       |                      |
|---------------------------------|---------------------------------------|----------------------|
| (This space for State Use)      |                                       |                      |
| APPROVED BY: _____              | TITLE: _____                          | DATE: _____          |
| APPROVED BY: <u>Monty J. 54</u> | TITLE: <u>Environmental Geologist</u> | DATE: <u>11-3-03</u> |
| <i>Expires 10-2-04</i>          |                                       |                      |



## REFINING COMPANY

FAX

(505) 746-5283 DIV. ORDERS  
(505) 746-5481 TRUCKING  
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159  
TELEPHONE (505) 748-3311

FAX

(505) 746-5419 ACCOUNTING  
(505) 746-5451 EXEC/MKTG  
(505) 746-5421 ENGINEERING  
(505) 746-5480 PIPELINE

October 28, 2003

Ken Marsh  
CRI  
P.O. Box 388  
Hobbs, NM 88214

Ken,

The hydrocarbon contaminated soil generated from cleanups around the Lovington refinery and the generated diesel contaminated soil/debris processes have not changed. If you have any questions feel free to give me a call (505) 746-5241.

Sincerely,

Charlie Plymale  
Environmental Specialist

*An Independent Refinery Serving . . .*  
**NEW MEXICO • ARIZONA • WEST TEXAS • NORTHERN MEXICO**

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

OCT 27 2003

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: X<br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No X                                                                                                                                                                                                                                                                                                                                                                                                      | 4. Generator Navajo Refining Co.    |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5. Originating Site Artesia, NM     |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6. Transporter D & J Waste Services |
| 7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8. State New Mexico                 |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                     |

BRIEF DESCRIPTION OF MATERIAL:

RE: 10-21-03 (renewal of previous C-138)

Hydrocarbon contaminated soil generated from cleanups around refinery and excavation for gas oil hydrotreater unit

This material has been excavated and is stock piled and transportation process is on going

Estimated Volume approx 450 yards monthly Known Volume (to be entered by the operator at the end of the haul) cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 10-21-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

(This space for State Use)

APPROVED BY: W. Johnson TITLE: Environ Engg DATE: 10-22-03  
APPROVED BY: Martin J. Kelly TITLE: Environmental Geologist DATE: 10/27/03

EXPIRES 10-26-04

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

OCT 27 2003

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Quail Tools       |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Odessa, TX |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter Unknown         |
| 7. Location of Material (Street Address or ULSTR) 400 Alabama, Odessa, TX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8. State New Mexico            |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                |

BRIEF DESCRIPTION OF MATERIAL:

RE: 10-22-03 (renewal of previous C-138)

Sump sludge generated from steam cleaning oilfield tools.

This approval is for one year.

Estimated Volume approx 30 yards yearly Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy



SIGNATURE Kim Flowers TITLE: Rep DATE: 10-22-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

102703-3

(This space for State Use)

|                                 |                           |                       |
|---------------------------------|---------------------------|-----------------------|
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>Enrico Enza</u> | DATE: <u>10.24.03</u> |
| APPROVED BY: <b>DENIED</b>      | TITLE: _____              | DATE: _____           |

Last approved on 4/11/02: Note was made at that time to Resample.  
Material was last sampled and analyzed on 2/1/01. Samples  
must be preserved with Ice and be recieved at the Laboratory  
at 4°C ± 2° MJK



**AMARILLO:**

921 North Bivins  
Amarillo, TX 79107  
806-467-0607  
FAX: 806-467-0622  
E-mail:  
prescott@llano-permian.com

**AUSTIN:**

13009 Dessau Road  
Suite A  
Austin, TX 78754  
512-989-3428  
FAX: 512-989-3487  
E-mail:  
jfreeman@llano-permian.com

**CORPUS CHRISTI:**

600 Building  
Suite 1624  
600 Leopard  
Corpus Christi, TX 78473  
361-884-6400  
FAX: 361-884-6426  
E-mail:  
aharnes@llano-permian.com

**MIDLAND:**

9 East Industrial Loop  
Midland, TX 79701  
432-522-2133  
FAX: 432-522-2180  
E-mail:  
tjamas@llano-permian.com

**NEW BRAUNFELS:**

555 IH-35 South  
Suite 320-I  
New Braunfels, TX 78130  
830-620-1634  
FAX: 800-863-5670  
E-mail:  
millsaps@llano-permian.com

**Environmental:****Chemists****Biologists****Geologists****Scientists****Corrective Action  
Project Managers**

October 3, 2003

Mr. David Parsons  
Controlled Recovery Inc.  
P.O. Box 388  
Hobbs, NM 88241

Subject: Sludge from Quail Tools, Inc. Facility, 400 W. Alabama,  
Odessa, TX

Dear Mr. Parsons:

The intent of this letter is to notify CRI that the sludge stream at this facility has not changed. The process by which the sludge is generated remains identical and all sludge produced by current practices is typical. Please evaluate the current waste stream data and see if Quail Tool can ship their sludge under the present waste stream number. Thank you.

Sincerely,  
LLANO-PERMIAN ENVIRONMENTAL

A handwritten signature in dark ink, appearing to read "Bo Vizcaino".

Moises "Bo" Vizcaino  
Sr. Project Manager

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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

NOV 20 2003

OIL CONSERVATION  
DIVISION

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Weatherford           |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Hobbs Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter CRI                 |
| 7. Location of Material (Street Address or ULSTR) 3000 W County Rd, Hobbs, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8. State New Mexico                |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                    |

BRIEF DESCRIPTION OF MATERIAL:

RE: 11-13-03 (re-newel of C-138)

Sump Water – generated from steaming off oilfield tools and equipment

Enclosed is analytical, non-exempt waste form and chain-of-custody.

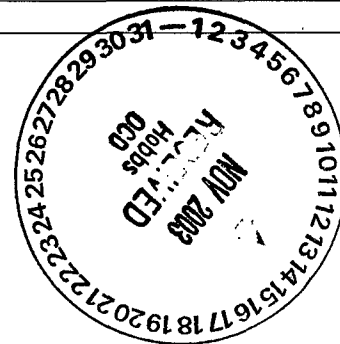
Estimated Volume 100 bbls/monthly Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy  
*This Expires 11-23-04 myk*

SIGNATURE Kim Flowers  
Waste Management Facility Authorized Agent

TITLE: Rep DATE: 11-13-03

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com



(This space for State Use)

APPROVED BY: [Signature] TITLE: Enviro EPER DATE: 11-17-03

APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 11-24-03

1-504211



PHONE (325) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONTROLLED RECOVERY, INC.

ATTN: DAVID PARSONS

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 11/04/03

Reporting Date: 11/07/03

Project Owner: WEATHERFORD

Project Name: WASHBAY SUMP SLUDGE

Project Location: 3000 W. COUNTY ROAD

Sampling Date: 11/04/03

Sample Type: SLUDGE

Sample Condition: COOL &amp; INTACT

Sample Received By: AH

Analyzed By: AH

## TCLP METALS

| LAB NO. | SAMPLE ID | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

|                             |          |          |          |          |          |          |          |          |          |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| ANALYSIS DATE:              | 11/07/03 | 11/07/03 | 11/07/03 | 11/07/03 | 11/07/03 | 11/07/03 | 11/07/03 | 11/07/03 | 11/07/03 |
| EPA LIMITS:                 | 5        | 5        | 100      | 1        | 5        | 5        | 0.2      | 1        |          |
| H8139-1 .1                  | <1       | <1       | <5       | <0.1     | <1       | <2       | <0.02    | <0.1     |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
| Quality Control             | 0.054    | 5.048    | 24.30    | 0.956    | 4.881    | 4.821    | 0.0093   | 0.051    |          |
| True Value QC               | 0.050    | 5.000    | 25.00    | 1.000    | 5.000    | 5.000    | 0.0100   | 0.050    |          |
| % Recovery                  | 108      | 101      | 97.2     | 95.6     | 97.6     | 96.4     | 93.0     | 102      |          |
| Relative Standard Deviation | 2.1      | 0.2      | 4.3      | 0.7      | 0.3      | 7.1      | 7.3      | 2.7      |          |

|                             |       |       |       |       |       |       |       |       |  |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| METHODS: EPA 1311, 600/4-91 | 206.2 | 272.1 | 208.1 | 213.1 | 218.1 | 239.1 | 245.1 | 270.2 |  |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|

*Amy Hill*  
Chemist

11/7/03  
Date

H8139  
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



# ARDINAL LABORATORIES

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**FAX TO: (505) 393-3615**

**Project Location: 3000 W. COUNTY RD.**

**Analyzed By: AH/BC**

IGNITABILITY  
(°F)

| ANALYSIS DATE:              | 11/06/03     | 11/06/03     | 11/04/03 | 11/07/03 |
|-----------------------------|--------------|--------------|----------|----------|
| H8139-1 1                   | Not reactive | Not reactive | 7.14     | >140     |
|                             |              |              |          |          |
|                             |              |              |          |          |
|                             |              |              |          |          |
|                             |              |              |          |          |
|                             |              |              |          |          |
| Quality Control             | NR           | NR           | 6.98     | NR       |
| True Value QC               | NR           | NR           | 7.00     | NR       |
| % Recovery                  | NR           | NR           | 99.7     | NR       |
| Relative Percent Difference | NR           | NR           | 0        | NR       |

METHOD: EPA SW-846 7.3, 7.2, 1010, 1311, 40 CFR 261

## Chemist

Date \_\_\_\_\_

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

# H8139R.XLS



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONTROLLED RECOVERY, INC.  
ATTN: DAVID PARSONS  
P.O. BOX 388  
HOBBS, NM 88241  
FAX TO: (505) 393-3615

Receiving Date: 11/04/03  
Reporting Date: 11/07/03  
Project Owner: WEATHERFORD  
Project Name: WASHBAY SUMP SLUDGE  
Project Location: 3000 W. COUNTY RD.  
Lab Number: H8139-1  
Sample ID: 1

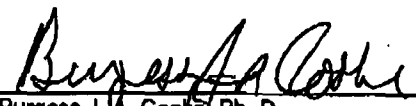
Analysis Date: 11/06/03  
Sampling Date: 11/04/03  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

| TCLP SEMIVOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H8139-1 | Method<br>Blank | QC    | % Recov. | True Value<br>QC |
|--------------------------|--------------|--------------------------|-----------------|-------|----------|------------------|
| Pyridine                 | 5.00         | <0.020                   | <0.005          | 0.010 | 20       | 0.050            |
| 1,4-Dichlorobenzene      | 7.60         | <0.020                   | <0.005          | 0.035 | 70       | 0.050            |
| o-Cresol                 | 200          | <0.020                   | <0.005          | 0.038 | 78       | 0.050            |
| m, p-Cresol              | 200          | <0.020                   | <0.005          | 0.038 | 78       | 0.050            |
| Hexachloroethane         | 3.00         | <0.020                   | <0.005          | 0.031 | 62       | 0.050            |
| Nitrobenzene             | 2.00         | <0.020                   | <0.005          | 0.045 | 90       | 0.050            |
| Hexachloro-1,3-butadiene | 0.508        | <0.020                   | <0.005          | 0.039 | 78       | 0.050            |
| 2,4,6-Trichlorophenol    | 2.00         | <0.020                   | <0.005          | 0.049 | 98       | 0.050            |
| 2,4,5-Trichlorophenol    | 400          | <0.020                   | <0.005          | 0.049 | 98       | 0.050            |
| 2,4-Dinitrotoluene       | 0.130        | <0.020                   | <0.005          | 0.048 | 92       | 0.050            |
| Hexachlorobenzene        | 0.130        | <0.020                   | <0.005          | 0.047 | 94       | 0.050            |
| Pentachlorophenol        | 100          | <0.020                   | <0.005          | 0.031 | 62       | 0.050            |

## % RECOVERY

|                      |     |
|----------------------|-----|
| Fluorophenol         | 58  |
| Phenol-d5            | 38  |
| Nitrobenzene-d5      | 68  |
| 2-Fluorobiphenyl     | 68  |
| 2,4,6-Tribromophenol | 108 |
| Terphenyl-d14        | 98  |

METHODS: EPA SW-846 1311, 8270, 3510

  
Burgess J. A. Cooke Ph. D.

11/17/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79803

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
 CONTROLLED RECOVERY, INC.  
 ATTN: DAVID PARSONS  
 P.O. BOX 388  
 HOBBS, NM 88241  
 FAX TO: (505) 393-3615

Receiving Date: 11/04/03  
 Reporting Date: 11/07/03  
 Project Owner: WEATHERFORD  
 Project Name: WASHBAY SUMP SLUDGE  
 Project Location: 3000 W. COUNTY RD.  
 Lab Number: H8139-1  
 Sample ID: 1

Analysis Date: 11/05/03  
 Sampling Date: 11/04/03  
 Sample Type: SLUDGE  
 Sample Condition: COOL & INTACT  
 Sample Received By: AH  
 Analyzed By: BC

| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H8139-1 | Method<br>Blank | QC    | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|-------|---------|------------------|
| Vinyl Chloride       | 0.20         | <0.005                   | <0.005          | 0.095 | 95      | 0.100            |
| 1,1-Dichloroethylene | 0.7          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| Methyl Ethyl Ketone  | 200          | 0.127                    | <0.050          | 0.083 | 83      | 0.100            |
| Chloroform           | 6.0          | 0.016                    | <0.005          | 0.097 | 97      | 0.100            |
| 1,2-Dichloroethane   | 0.5          | <0.005                   | <0.005          | 0.088 | 88      | 0.100            |
| Benzene              | 0.5          | 0.009                    | <0.005          | 0.100 | 100     | 0.100            |
| Carbon Tetrachloride | 0.5          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| Trichloroethylene    | 0.5          | <0.005                   | <0.005          | 0.101 | 101     | 0.100            |
| Tetrachloroethylene  | 0.7          | <0.005                   | <0.005          | 0.105 | 105     | 0.100            |
| Chlorobenzene        | 100          | <0.005                   | <0.005          | 0.097 | 97      | 0.100            |
| 1,4-Dichlorobenzene  | 7.5          | 0.011                    | 0.007           | 0.095 | 95      | 0.100            |

## % RECOVERY

|                      |     |
|----------------------|-----|
| Dibromofluoromethane | 95  |
| Toluene-d8           | 104 |
| Bromofluorobenzene   | 103 |

METHODS: EPA SW 846-8260, 1311

Burgess J. Cooke, Ph.D.

Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Weatherford  
ADDRESS 3000 West County Road  
GENERATING SITE 3000 West County Road  
COUNTY Lea STATE NM  
TYPE OF WASTE Sump water  
ESTIMATED VOLUME 100 bbls  
GENERATING PROCESS steaming off oilfield tools & equipment

REMARKS \_\_\_\_\_

NMOCD FACILITY CRI

TRUCKING COMPANY CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Duane Bryant  
SIGNATURE

NAME Duane Bryant  
PRINTED

ADDRESS Weatherford

3000 W. County Rd Hobbs NM 88240

DATE 11-12-03



2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240

**(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476**

Page 1 of 1

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|                                                                                         |                                     |                            |               |                         |                 |
|-----------------------------------------------------------------------------------------|-------------------------------------|----------------------------|---------------|-------------------------|-----------------|
| <b>Company Name:</b> Wetherford                                                         |                                     | <b>BILL TO PO #:</b>       |               | <b>ANALYSIS REQUEST</b> |                 |
| <b>Project Manager:</b> Duane Bryant                                                    |                                     |                            |               |                         |                 |
| <b>Address:</b> 3000 W County Rd                                                        |                                     | <b>Company:</b> CRT        |               |                         |                 |
| <b>City:</b> Abbbs                                                                      | <b>State/Zip:</b> 88240             | <b>Attn:</b> David Parsons |               |                         |                 |
| <b>Phone #:</b> 505-392-2626                                                            |                                     | <b>Address:</b> Box 388    |               |                         |                 |
| <b>Fax #:</b>                                                                           |                                     | <b>City:</b> Abbbs         |               |                         |                 |
| <b>Project #:</b>                                                                       |                                     | <b>State:</b> NM           |               |                         |                 |
| <b>Project Owner:</b>                                                                   |                                     | <b>Zip:</b> 88241          |               |                         |                 |
| <b>Project Name:</b> Wash Bay Sample Sludge                                             |                                     | <b>Phone #:</b> 393-1079   |               |                         |                 |
| <b>Project Location:</b>                                                                |                                     | <b>Fax #:</b> 383-8625     |               |                         |                 |
| <b>FOR LAB USE ONLY</b>                                                                 |                                     |                            |               |                         |                 |
| <b>LAB I.D.</b><br><br>H839-1<br><br>                                                   | <b>Sample I.D.</b><br><br>7<br><br> | (G)RAB OR (C)OMP.          | <b>MATRIX</b> | <b>PRES.</b>            | <b>SAMPLING</b> |
|                                                                                         |                                     | # CONTAINERS               |               |                         |                 |
|                                                                                         |                                     | GROUNDWATER                |               |                         |                 |
|                                                                                         |                                     | WASTEWATER                 |               |                         |                 |
|                                                                                         |                                     | SOIL                       |               |                         |                 |
|                                                                                         |                                     | OIL                        |               |                         |                 |
|                                                                                         |                                     | SLUDGE                     |               |                         |                 |
|                                                                                         |                                     | OTHER :                    |               |                         |                 |
|                                                                                         |                                     | ACID:                      |               |                         |                 |
|                                                                                         |                                     | ICE / COOL                 |               |                         |                 |
| DATE                                                                                    | TIME                                |                            |               |                         |                 |
| 11/4/03                                                                                 | 11:00am                             |                            |               |                         |                 |
| <b>TCLP metals</b><br><b>TCLP volatiles</b><br><b>TCLP semi-volatiles</b><br><b>RCD</b> |                                     |                            |               |                         |                 |

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

|                                     |                       |                                                                                                   |                                                                                          |                          |
|-------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------|
| <b>Sampler Relinquished:</b>        | <b>Date:</b> 11-4-03  | <b>Received By:</b>                                                                               | <b>Phone Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <b>Additional Fax #:</b> |
| <b>Relinquished By:</b>             | <b>Date:</b> 11/28/03 | <b>Received By: (Lab Staff)</b>                                                                   | <b>Fax Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |                          |
| <b>Delivered By: (Circle One)</b>   |                       | <b>CHECKED BY:</b>                                                                                |                                                                                          |                          |
| <b>Sampler - UPS - Bus - Other:</b> |                       | <b>Sample Condition</b>                                                                           |                                                                                          |                          |
|                                     |                       | <b>Cool</b> <input checked="" type="checkbox"/> <b>Intact</b> <input checked="" type="checkbox"/> |                                                                                          |                          |
|                                     |                       | <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>                            |                                                                                          |                          |
|                                     |                       | <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>                            |                                                                                          |                          |
| <b>REMARKS:</b>                     |                       |                                                                                                   |                                                                                          |                          |

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.



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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

OCT 27 2003

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                           | 4. Generator Navajo Refining Co.    |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5. Originating Site Artesia, NM     |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6. Transporter D & J Waste Services |
| 7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8. State New Mexico                 |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                     |

**BRIEF DESCRIPTION OF MATERIAL:**

RE: 10-21-03 (renewal of previous C-138)

Hydrocarbon contaminated soil generated from cleanups around refinery and excavation for gas oil hydrotreater

This material has been excavated and is stock piled and transportation process is on going.

Estimated Volume approx 450 yards monthly Known Volume (to be entered by the operator at the end of the haul) For one year or until 10-26-04 mjk cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 10-21-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

(This space for State Use)

APPROVED BY: [Signature] TITLE: ENRICO EAGER DATE: 10.22.03

APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 10/27/03  
Expires 10-26-04

2-501201

**REFINING COMPANY****FAX**

(505) 746-5283 DIV. ORDERS  
(505) 746-5481 TRUCKING  
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159  
TELEPHONE (505) 746-3311

**FAX**

(505) 746-5419 ACCOUNTING  
(505) 746-5451 EXEC/MKTG  
(505) 746-5421 ENGINEERING  
(505) 746-5480 PIPELINE

October 20, 2003

Ken Marsh  
CRI  
P.O. Box 388  
Hobbs, NM 88214

Ken,

The C-138 # 02-28-02A for hydrocarbon contaminated soil generated from cleanups around the refinery and the excavation for our gas oil hydrotreater unit has not changed in process. This material is still being transported and will continue until approximately April 2004. If you have any questions feel free to give me a call (505) 746-5241.

Sincerely,

Charlie Plymale  
Environmental Specialist

# Navajo Refining Company



501 E Main St.  
P.O. Box 159  
Artesia NM, 88211-0159  
Phone-(505) 746-5289

Environmental Department  
Fax-(505) 746-5283  
or (505) 746-5421

## Fax

Company Name: \_\_\_\_\_

To: Ken Marsh

From: Charlie Plymale

Fax: 505 393 3615

Pages: 3 (Including cover sheet)

Phone: \_\_\_\_\_

Date: 10/20/03

Re: \_\_\_\_\_

CC: \_\_\_\_\_

☐ Urgent    ☐ For Review    ☐ Please Comment    ☐ Please Reply    ☐ Please Recycle

• Unless otherwise indicated or obvious from the nature of the transmittal, the information contained in this facsimile message is privileged and confidential information intended for the use of the individual or entity names above. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error or are not sure whether it is privileged, please immediately notify us by telephone and return the original message to us at the above address via the U.S. Postal Service. Thank you

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL LISA AT 505-748-6733

☐ **Comments:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

OCT 27 2003

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                  | 4. Generator Halliburton Energy Services<br>Former Dresser Industries |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5. Originating Site Hobbs, NM                                         |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6. Transporter Halliburton                                            |
| 7. Location of Material (Street Address or ULSTR) 3311 Industrial, Hobbs, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8. State New Mexico                                                   |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator;<br>one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the<br>material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be<br>approved<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                                       |

**BRIEF DESCRIPTION OF MATERIAL:**

RE: 10-23-03

Dried sludge from sump. Washing of down hole tools. This is a sump that has not been used for approx. 4 years and all of the water had evaporated off.

Enclosed is Certificate of Waste, Analytical results and Chain of Custody.

Estimated Volume 110 gallons Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 10-23-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

(This space for State Use)

APPROVED BY: St. Johnson TITLE: ENGR, ENVIRO DATE: 10-24-03

APPROVED BY: Monty J. J. TITLE: Environmental Geologist DATE: 10-27-03

10270371

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

**COMPANY/GENERATOR:** Halliburton Energy Services (Former Dresser Industries Facility)

**ADDRESS:** 3311 Industrial , Hobbs NM 88240

**GENERATING SITE:** Halliburton Energy Services, 3311 Industrial, Hobbs, NM

**COUNTY:** Lea

**STATE:** New Mexico

**TYPE OF WASTE:** Dried Sludge from Sump

**ESTIMATED VOLUME:** ) 110 gallons

**GENERATING PROCESS:** -Washing of downhole tools. This is a sump that has not been used for approx. 4 years and all of the water had evaporated off.

**REMARKS:**

**NMOCD FACILITY:** CRI- Control Recovery Inc.

**TRUCKING COMPANY:** Halliburton Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection agency's EPA July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant of the provisions of 40 CFR Part 261 to verify the nature as Non-Hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subpart C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3>

**AGENT:** Stephen W. Bailey

**NAME:** STEPHEN W. BAILEY

**ADDRESS:** 5801 LOVINGTON HWY, HOBBS, NM 88240

**DATE:** 10-22-03



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

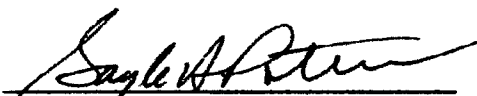
ANALYTICAL RESULTS FOR  
HALLIBURTON ENERGY SERVICES  
ATTN: SCOTT NELSON  
5801 LOVINGTON HWY  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 12/01/99  
Reporting Date: 12/03/99  
Project Number: NOT GIVEN  
Project Name: SUMP ANALYSIS  
Project Location: DRESSER OIL TOOLS

Sampling Date: 12/01/99  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: AH/GP  
Analyzed By: AH/GP

TCLP METALS

| LAB NO.                      | SAMPLE ID | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ANALYSIS DATE:               |           | 12/02/99  | 12/02/99  | 12/02/99  | 12/02/99  | 12/02/99  | 12/02/99  | 12/02/99  | 12/02/99  |
| EPA LIMITS:                  |           | 5         | 5         | 100       | 1         | 5         | 5         | 0.2       | 1         |
| H4486-1                      | SUMP      | <1        | <1        | <5        | <0.1      | <1        | <1        | <0.02     | <0.1      |
|                              |           |           |           |           |           |           |           |           |           |
|                              |           |           |           |           |           |           |           |           |           |
|                              |           |           |           |           |           |           |           |           |           |
|                              |           |           |           |           |           |           |           |           |           |
|                              |           |           |           |           |           |           |           |           |           |
|                              |           |           |           |           |           |           |           |           |           |
| Quality Control              |           | 0.197     | 4.831     | 24.70     | 0.974     | 5.013     | 4.553     | 0.0115    | 0.191     |
| True Value QC                |           | 0.200     | 5.000     | 25.00     | 1.000     | 5.000     | 5.000     | 0.0100    | 0.200     |
| % Recovery                   |           | 99        | 97        | 99        | 97        | 100       | 91        | 115       | 96        |
| Relative Standard Deviation  |           | 1.2       | 0.3       | 0.6       | 0.2       | 0.5       | 1.6       | 1.3       | 2.5       |
| METHODS: EPA 1311, 600/4-91/ |           |           |           |           |           |           |           |           |           |
|                              |           | 206.2     | 272.1     | 208.1     | 213.1     | 218.1     | 239.1     | 245.1     | 270.2     |

  
Gayle A. Potter, Chemist

12/04/99  
Date

H4486M.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
HALLIBURTON ENERGY SERVICES  
ATTN: SCOTT NELSON  
5801 LOVINGTON HWY  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 12/01/99  
Reporting Date: 12/06/99  
Project Number: NOT GIVEN  
Project Name: SUMP ANALYSIS  
Project Location: DRESSER OIL TOOLS  
Lab Number: H4486-1  
Sample ID: SUMP

Analysis Date: 12/04/99  
Sampling Date: 12/01/99  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: AH/GP  
Analyzed By: BC

| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H4486-1 | Method<br>Blank | QC    | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|-------|---------|------------------|
| Vinyl Chloride       | 0.20         | <0.250                   | <0.005          | 0.097 | 97      | 0.100            |
| 1,1-Dichloroethylene | 0.7          | <0.250                   | <0.005          | 0.101 | 101     | 0.100            |
| Methyl Ethyl Ketone  | 200          | <2.50                    | <0.050          | 0.086 | 86      | 0.100            |
| Chloroform           | 6.0          | <0.250                   | <0.005          | 0.097 | 97      | 0.100            |
| 1,2-Dichloroethane   | 0.5          | <0.250                   | <0.005          | 0.103 | 103     | 0.100            |
| Benzene              | 0.5          | <0.250                   | <0.005          | 0.097 | 97      | 0.100            |
| Carbon Tetrachloride | 0.5          | <0.250                   | <0.005          | 0.112 | 112     | 0.100            |
| Trichloroethylene    | 0.5          | <0.250                   | <0.005          | 0.098 | 98      | 0.100            |
| Tetrachloroethylene  | 0.7          | <0.250                   | <0.005          | 0.114 | 114     | 0.100            |
| Chlorobenzene        | 100          | <0.250                   | <0.005          | 0.102 | 102     | 0.100            |
| 1,4-Dichlorobenzene  | 7.5          | <0.250                   | <0.005          | 0.099 | 99      | 0.100            |

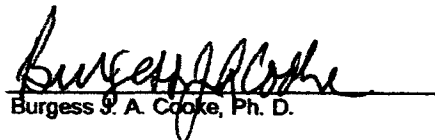
% RECOVERY

|                      |     |
|----------------------|-----|
| Dibromofluoromethane | 106 |
| Toluene-d8           | 89  |
| Bromofluorobenzene   | 97  |

METHODS: EPA SW 846-8260, 1311

NOTE: Sludge was 80% liq., 20% solid; results are a weighted average from separate analyses.

Matrix interference (foaming) observed; dilution required.

  
Burgess J. A. Cooke, Ph. D.

12/6/99  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
HALLIBURTON ENERGY SERVICES  
ATTN: SCOTT NELSON  
5801 LOVINGTON HWY  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 12/01/99  
Reporting Date: 12/03/99  
Project Number: NOT GIVEN  
Project Name: SUMP ANALYSIS  
Project Location: DRESSER OIL TOOLS  
Lab Number: H4486-1  
Sample ID: SUMP

Analysis Date: 12/02/99  
Sampling Date: 12/01/99  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: AH/GP  
Analyzed By: BC

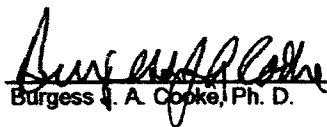
| TCLP SEMIVOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H4486-1 | Method<br>Blank | QC    | % Recov. | True Value<br>QC |
|--------------------------|--------------|--------------------------|-----------------|-------|----------|------------------|
| Pyridine                 | 5.00         | <0.050                   | <0.005          | 0.006 | 12       | 0.050            |
| 1,4-Dichlorobenzene      | 7.50         | <0.050                   | <0.005          | 0.036 | 72       | 0.050            |
| o-Cresol                 | 200          | <0.050                   | <0.005          | 0.017 | 34       | 0.050            |
| m, p-Cresol              | 200          | 0.125                    | <0.005          | 0.017 | 34       | 0.050            |
| Hexachloroethane         | 3.00         | <0.050                   | <0.005          | 0.027 | 54       | 0.050            |
| Nitrobenzene             | 2.00         | <0.050                   | <0.005          | 0.034 | 68       | 0.050            |
| Hexachloro-1,3-butadiene | 0.500        | <0.050                   | <0.005          | 0.034 | 68       | 0.050            |
| 2,4,6-Trichlorophenol    | 2.00         | <0.050                   | <0.005          | 0.032 | 64       | 0.050            |
| 2,4,5-Trichlorophenol    | 400          | <0.050                   | <0.005          | 0.036 | 72       | 0.050            |
| 2,4-Dinitrotoluene       | 0.130        | <0.050                   | <0.005          | 0.045 | 90       | 0.050            |
| Hexachlorobenzene        | 0.130        | <0.050                   | <0.005          | 0.044 | 88       | 0.050            |
| Pentachlorophenol        | 100          | <0.050                   | <0.005          | 0.040 | 80       | 0.050            |

% RECOVERY

|                      |     |
|----------------------|-----|
| Fluorophenol         | 73  |
| Phenol-d5            | 55  |
| Nitrobenzene-d5      | 92  |
| 2-Fluorobiphenyl     | 88  |
| 2,4,6-Tribromophenol | 101 |
| Terphenyl-d14        | 106 |

METHODS: EPA SW 846-8270, 1311, 3510

NOTE: Sludge was 80% liq., 20% solid; results are a weighted average from separate analyses.

  
Burgess J. A. Cooke, Ph. D.

12/3/99  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
HALLIBURTON ENERGY SERVICES  
ATTN: SCOTT NELSON  
5801 LOVINGTON HWY.  
HOBBS, NM 88240

FAX TO:

Receiving Date: 12/01/99  
Reporting Date: 12/03/99  
Project Number: NOT GIVEN  
Project Name: SUMP ANALYSIS  
Project Location: DRESSER OIL TOOLS

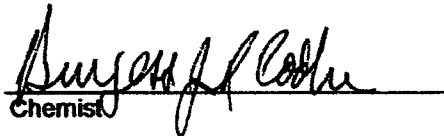
Sampling Date: 12/01/99  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: AH/GP  
Analyzed By: AH/BC

LAB NUMBER SAMPLE ID

|  | REACTIVITY       |                  |                     |                      |
|--|------------------|------------------|---------------------|----------------------|
|  | Sulfide<br>(ppm) | Cyanide<br>(ppm) | CORROSIVITY<br>(pH) | IGNITABILITY<br>(°F) |

|                             |              |              |          |          |
|-----------------------------|--------------|--------------|----------|----------|
| ANALYSIS DATE:              | 12/03/99     | 12/03/99     | 12/02/99 | 12/02/99 |
| H4486-1 SUMP                | Not reactive | Not reactive | 7.08     | >140     |
|                             |              |              |          |          |
|                             |              |              |          |          |
|                             |              |              |          |          |
|                             |              |              |          |          |
|                             |              |              |          |          |
| Quality Control             | NR           | NR           | 7.02     | NR       |
| True Value QC               | NR           | NR           | 7.00     | NR       |
| % Recovery                  | NR           | NR           | 100      | NR       |
| Relative Percent Difference | NR           | NR           | 0.3      | NR       |

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, 40 CFR 261

  
Chemist

12/3/99  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page        of       

**ARDINAL LABORATORIES, INC.**

2111 Beechwood, Abilene, TX 79603  
(915) 673-7001 Fax (915) 673-7020

[illegible]

**+ Cardinal cannot accept verbal changes. Please fax written changes to 815-673-7020.**

**davidparsons**

---

**From:** Harvey Price [Harvey.Price@Halliburton.com]

**Sent:** Wednesday, October 22, 2003 12:54 PM

**To:** david@crihobbs.com

**Subject:** CERTIFICATE OF WASTE AND ANALYTICAL FROM HALLIBURTON

FYI

Thanks

**HALLIBURTON**

HARVEY PRICE

FACILITY MAINTENANCE ASSOCIATE

505-392-0746 OFFICE

505-390-1609 CELLULAR

10/23/2003

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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

SEP 29 2003

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Duke Energy Field Services, LP |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Artesia, NM             |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter Gandy                        |
| 7. Location of Material (Street Address or ULSTR) Artesia Gas Plant, Eddy Co.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8. State New Mexico                         |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                             |

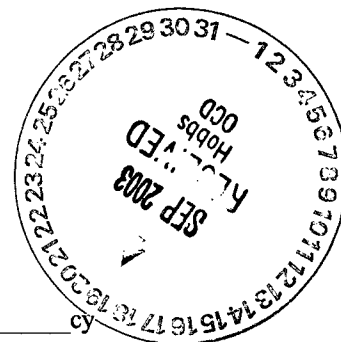
BRIEF DESCRIPTION OF MATERIAL:

RE: 09-18-03

Dirt/Oil scraped up from around equipment.

Enclosed is a chain of custody and analytical results.

Estimated Volume 5 yards Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_



SIGNATURE Kim Flowers TITLE: Rep DATE: 09-19-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

092903-1

|                                    |                                       |                      |
|------------------------------------|---------------------------------------|----------------------|
| (This space for State Use)         |                                       |                      |
| APPROVED BY: _____                 | TITLE: _____                          | DATE: _____          |
| APPROVED BY: <u>Monty J. Jolly</u> | TITLE: <u>Environmental Geologist</u> | DATE: <u>9-29-03</u> |

Mar 10 03 02:30p

CRI

5053933615

p.1

**CERTIFICATE OF WASTE STATUS**  
**EXEMPT WASTE MATERIAL**  
**"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Duke Energy Field Services, LP  
ADDRESS 3300 North A St., Bldg. 7, Midland, TX 79705  
GENERATING SITE Artesia Gas Plant

COUNTY Eddy STATE NM  
TYPE OF WASTE Spent Charcoal from amine system  
ESTIMATED VOLUME 3 yds.  
GENERATING PROCESS Amine system

REMARKS Exempt waste  
NMOCD FACILITY CRI  
TRUCKING COMPANY Candy

I hereby certify, represent and warrant that the wastes are generated from oil and gas exploration and production operations exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations; and not mixed with non-exempt wastes.

AGENT Lynn Ward  
SIGNATURE  
NAME Lynn Ward  
PRINTED  
ADDRESS 3300 N. A St., Bldg. 7  
Midland, TX 79705  
DATE 9/17/03

**CERTIFICATE OF WASTE STATUS**  
**NON-EXEMPT WASTE MATERIAL**  
**"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Duke Energy Field Services, LP  
ADDRESS 3300 North A St., Bldg. 7, Midland TX 79705  
GENERATING SITE Artesia Gas Plant

COUNTY Eddy STATE NM

TYPE OF WASTE Non-hazardous, hydrocarbon contaminated soil

ESTIMATED VOLUME 5 yds.

GENERATING PROCESS Process area - dirt/soil scraped up from around equipment.

REMARKS \_\_\_\_\_

NMOCD FACILITY CR1

TRUCKING COMPANY Gandy

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Lynn Ward

SIGNATURE

NAME Lynn Ward

PRINTED

ADDRESS 3300 N. A St., Bldg. 7

Midland, TX 79705

DATE 9/17/03

**Duke Energy Field  
Services, LP**

# Memo

**To:** Ken Marsh  
**From:** Lynn Ward  
**CC:**  
**Date:** 9/17/2003  
**Re:** Artesia Plant generated non-exempt and exempt waste

---

Dear Ken,

As we discussed on the telephone today, the estimated quantity of non-exempt waste resulting from clean up around the plant process area is approximately 5 cubic yards. The quantity of additional exempt waste is approximately 3 cubic yards of spent charcoal medium from the plant amine system. In order to conserve time and resources, is there a possibility that both wastes can be trucked in the same dump truck to CRI for disposal? Please advise. Currently the wastes are segregated on a concrete pad.

Sincerely,

Lynn Ward

Duke Energy Field Services, LP

Environmental Specialist

Western Division

# ENVIRONMENTAL LAB OF TEXAS

## SAMPLE WORK LIST

DUKE ENERGY FIELD SERVICES  
3300 NORTH A STREET, BLDG. 7  
MIDLAND, TX 79705  
620-4162

Order#: G0307378  
Project:  
Project Name: Soil Stockpile  
Location: Artesia Plant

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

| <u>Lab ID:</u>                     | <u>Sample :</u> | <u>Matrix:</u> | <u>Date / Time</u><br><u>Collected</u> | <u>Date / Time</u><br><u>Received</u> | <u>Container</u> | <u>Preservative</u> |
|------------------------------------|-----------------|----------------|----------------------------------------|---------------------------------------|------------------|---------------------|
| 0307378-01                         | SS #1           | SOIL           | 9/3/03<br>10:01                        | 9/4/03<br>12:55                       | 4 oz glass       | ice                 |
| <u>Lab Testing:</u>                |                 | Rejected: No   | Temp: 3.5 C                            |                                       |                  |                     |
| 8260B TCLP                         |                 |                |                                        |                                       |                  |                     |
| 8270C Semivolatile Organics - TCLP |                 |                |                                        |                                       |                  |                     |
| METALS RCRA 7 TCLP                 |                 |                |                                        |                                       |                  |                     |
| Ignitability                       |                 |                |                                        |                                       |                  |                     |
| Mercury, TCLP                      |                 |                |                                        |                                       |                  |                     |
| pH                                 |                 |                |                                        |                                       |                  |                     |
| Reactive Cyanide                   |                 |                |                                        |                                       |                  |                     |
| Reactive Sulfide                   |                 |                |                                        |                                       |                  |                     |



#2300 P.0047012 P.4

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

LYNN WARD  
DUKE ENERGY FIELD SERVICES  
3300 NORTH A STREET, BLDG. 7  
MIDLAND, TX 79705

Order#: C0307378  
Project:  
Project Name: Soil Stockpile  
Location: Artesia Plant

Lab ID: 0307378-01  
Sample ID: SS #1

### 8270C Semivolatile Organics - TCLP

| Method     | Date     | Date     | Sample | Dilution | Analyst | Method     |
|------------|----------|----------|--------|----------|---------|------------|
| Blank      | Prepared | Analyzed | Amount | Factor   |         |            |
| 0006807.02 |          | 9/11/03  | 1      | 1        | RKT     | 1311/8270C |

| Parameter             | Result<br>mg/kg | RL    |
|-----------------------|-----------------|-------|
| Pyridine              | <0.030          | 0.030 |
| 1,4-Dichlorobenzene   | <0.030          | 0.030 |
| 2-Methylphenol        | <0.030          | 0.030 |
| Hexachloroethane      | <0.030          | 0.030 |
| Nitrobenzene          | <0.030          | 0.030 |
| Hexachlorobutadiene   | <0.030          | 0.030 |
| 2,4,6-Trichlorophenol | <0.030          | 0.030 |
| 2,4,5-Trichlorophenol | <0.030          | 0.030 |
| 2,4-Dinitrotoluene    | <0.030          | 0.030 |
| Hexachlorobenzene     | <0.030          | 0.030 |
| Pentachlorophenol     | <0.030          | 0.030 |
| 4-Methylphenol        | <0.030          | 0.030 |

| Surrogate            | % Recovered | QC Limits (%) |     |
|----------------------|-------------|---------------|-----|
| 2-Fluorophenol       | 62%         | 21            | 110 |
| Phenol-d3            | 55%         | 10            | 110 |
| Nitrobenzene-d5      | 73%         | 23            | 120 |
| 2-Fluorobiphenyl     | 82%         | 30            | 118 |
| 2,4,6-Tribromophenol | 55%         | 10            | 123 |
| p-Terphenyl-d14      | 106%        | 18            | 137 |

Approval: Ralanda K. Tuttle 9-16-03  
Ralanda K. Tuttle, Lab Director, QA Officer  
Coley D. Keene, Org. Tech. Director  
Jeanne McMurray, Inorg. Tech. Director  
Sandra Blazugha, Lab Tech.  
Sam Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

## ENVIRONMENTAL LAB OF TEXAS

### ANALYTICAL REPORT

LYNN WARD  
DUKE ENERGY FIELD SERVICES  
3300 NORTH A STREET, BLDG. 7  
MIDLAND, TX 79705

Order#: G0307378  
Project:  
Project Name: Soil Stockpile  
Location: Artesia Plant

Lab ID: 0307378-01  
Sample ID: SS #1

#### 8260B TCLP

| Method     | Date     | Date             | Sample | Dilution | Analyst | Method     |
|------------|----------|------------------|--------|----------|---------|------------|
| Blank      | Prepared | Analyzed         | Amount | Factor   |         |            |
| 0006818-02 |          | 9/10/03<br>12:45 | 5      | 1        | RKT     | 1311/8260B |

| Parameter            | Result<br>µg/L | RL   |
|----------------------|----------------|------|
| Carbon tetrachloride | <1.00          | 1.00 |
| Benzene              | <1.00          | 1.00 |
| 1,2-Dichloroethane   | <1.00          | 1.00 |
| Chlorobenzene        | <1.00          | 1.00 |
| 1,1-Dichloroethene   | <1.00          | 1.00 |
| 1,4-Dichlorobenzene  | <1.00          | 1.00 |
| 2-Butanone (MEK)     | <1.00          | 1.00 |
| Chloroform           | <1.00          | 1.00 |
| Tetrachloroethene    | <1.00          | 1.00 |
| Trichloroethene      | <1.00          | 1.00 |
| Vinyl chloride       | <1.00          | 1.00 |

| Surrogates            | % Recovered | QC Limits (%) |     |
|-----------------------|-------------|---------------|-----|
| Dibromofluoromethane  | 103%        | 53            | 144 |
| 1,2-dichloroethane-d4 | 101%        | 57            | 147 |
| Toluene-d8            | 101%        | 64            | 128 |
| 4-Bromofluorobenzene  | 104%        | 47            | 158 |

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

Sep 16 03 04:45p

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

LYNN WARD  
DUKE ENERGY FIELD SERVICES  
3300 NORTH A STREET, BLDG. 7  
MIDLAND, TX 79705

Order#: C0307378  
Project:  
Project Name: Soil Stockpile  
Location: Artelia Plant

Lab ID: 0307378-01

Sample ID: SS #1

**METALS RCRA 7 TCLP**

| Parameter | Result | Units | Dilution Factor | RL    | Method     | Date Prepared | Date Analyzed | Analyst |
|-----------|--------|-------|-----------------|-------|------------|---------------|---------------|---------|
| Arsenic   | 0.040  | mg/L  | 1               | 0.008 | 1311/6010B | 09/07/2003    | 9/8/03        | SM      |
| Barium    | 0.155  | mg/L  | 1               | 0.001 | 1311/6010B | 09/07/2003    | 9/8/03        | SM      |
| Cadmium   | 0.006  | mg/L  | 1               | 0.001 | 1311/6010B | 09/07/2003    | 9/8/03        | SM      |
| Chromium  | 0.005  | mg/L  | 1               | 0.002 | 1311/6010B | 09/07/2003    | 9/8/03        | SM      |
| Lead      | <0.011 | mg/L  | 1               | 0.011 | 1311/6010B | 09/07/2003    | 9/8/03        | SM      |
| Selenium  | <0.004 | mg/L  | 1               | 0.004 | 1311/6010B | 09/07/2003    | 9/8/03        | SM      |
| Silver    | <0.002 | mg/L  | 1               | 0.002 | 1311/6010B | 09/07/2003    | 9/8/03        | SM      |

**Test Parameters**

| Parameter     | Result  | Units | Dilution Factor | RL     | Method    | Date Prepared | Date Analyzed | Analyst |
|---------------|---------|-------|-----------------|--------|-----------|---------------|---------------|---------|
| Mercury, TCLP | <0.0005 | mg/L  | 1               | 0.0005 | 1311/7470 | 09/07/2003    | 9/8/03        | SM      |

Approval: *Roland K. Tuttle* 9-16-03  
 Roland K. Tuttle, Lab Director, QA Officer  
 Coley D. Kocac, Org. Tech. Director  
 Jeanne McMurrey, Inorg. Tech. Director  
 Sandra Biezugbe, Lab Tech.  
 Sara Molina, Lab Tech.

N/A = Not Applicable RL = Reporting Limit

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

LYNN WARD  
DUKE ENERGY FIELD SERVICES  
3300 NORTH A STREET, BLDG. 7  
MIDLAND, TX 79705

Order#: G0307378  
Project:  
Project Name: Soil Stockpile  
Location: Artesia Plant

Lab ID: 0307378-01  
Sample ID: SS #1

### Test Parameters

| Parameter        | Result | Units    | Dilution Factor | RL   | Method     | Date Analyzed | Analyst |
|------------------|--------|----------|-----------------|------|------------|---------------|---------|
| Ignitability     | >100   | C        | 1               | N/A  | 1010       | 9/4/03        | TAL     |
| pH               | 7.30   | pH Units | 1               | N/A  | 9045C      | 9/4/03        | TAL     |
| Reactive Cyanide | <0.09  | mg/kg    | 1               | 0.09 | SW846 CH.7 | 9/9/03        | SB      |
| Reactive Sulfide | <5.00  | mg/kg    | 1               | 5.00 | SW846 CH.7 | 9/9/03        | SB      |

Approval:

*Rafael K. Tuttle* 9-16-03  
Rafael K. Tuttle, Lab Director, QA Officer  
Coley D. Keene, Org. Tech. Director  
Jeanne McMurrey, Inorg. Tech. Director  
Sandra Biczugbo, Lab Tech.  
Sara Molina, Lab Tech.

Date

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

Sep 16 03 04:46p

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****8260B TCLP**

Order#: G0307378

| <b>BLANK</b>              | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
|---------------------------|------|------------|------------------|-----------------|----------------|------------------|-------|
| Carbon tetrachloride-µg/L |      | 0006818-02 |                  |                 | <1.00          |                  |       |
| Benzene-µg/L              |      | 0006818-02 |                  |                 | <1.00          |                  |       |
| 1,2-Dichloroethane-µg/L   |      | 0006818-02 |                  |                 | <1.00          |                  |       |
| Chlorobenzene-µg/L        |      | 0006818-02 |                  |                 | <1.00          |                  |       |
| 1,1-Dichloroethene-µg/L   |      | 0006818-02 |                  |                 | <1.00          |                  |       |
| 1,4-Dichlorobenzene-µg/L  |      | 0006818-02 |                  |                 | <1.00          |                  |       |
| 2-Butanone (MEK)-µg/L     |      | 0006818-02 |                  |                 | <1.00          |                  |       |
| Chloroform-µg/L           |      | 0006818-02 |                  |                 | <1.00          |                  |       |
| Tetrachloroethene-µg/L    |      | 0006818-02 |                  |                 | <1.00          |                  |       |
| Trichloroethene-µg/L      |      | 0006818-02 |                  |                 | <1.00          |                  |       |
| Vinyl chloride-µg/L       |      | 0006818-02 |                  |                 | 0              |                  |       |
| <b>MS</b>                 | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| Carbon tetrachloride-µg/L |      | 0307378-01 | 0                | 50              | 51             | 102.4%           |       |
| Benzene-µg/L              |      | 0307378-01 | 0                | 50              | 52.7           | 105.4%           |       |
| 1,2-Dichloroethane-µg/L   |      | 0307378-01 | 0                | 50              | 47             | 94.4%            |       |
| Chlorobenzene-µg/L        |      | 0307378-01 | 0                | 50              | 44.4           | 88.8%            |       |
| 1,1-Dichloroethene-µg/L   |      | 0307378-01 | 0                | 50              | 64.7           | 129.4%           |       |
| 1,4-Dichlorobenzene-µg/L  |      | 0307378-01 | 0                | 50              | 40.3           | 80.6%            |       |
| 2-Butanone (MEK)-µg/L     |      | 0307378-01 | 0                | 100             | 104            | 104.4%           |       |
| Chloroform-µg/L           |      | 0307378-01 | 0                | 50              | 56.3           | 112.6%           |       |
| Tetrachloroethene-µg/L    |      | 0307378-01 | 0                | 50              | 36.1           | 72.2%            |       |
| Trichloroethene-µg/L      |      | 0307378-01 | 0                | 50              | 35.6           | 71.2%            |       |
| Vinyl chloride-µg/L       |      | 0307378-01 | 0                | 50              | 58.2           | 116.4%           |       |
| <b>MSD</b>                | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| Carbon tetrachloride-µg/L |      | 0307378-01 | 51               | 50              | 41.6           | 81.2%            | 20.3% |
| Benzene-µg/L              |      | 0307378-01 | 52.7             | 50              | 46.4           | 88.2%            | 12.7% |
| 1,2-Dichloroethane-µg/L   |      | 0307378-01 | 47               | 50              | 45             | 95.7%            | 4.3%  |
| Chlorobenzene-µg/L        |      | 0307378-01 | 44.4             | 50              | 36.3           | 81.5%            | 19.5% |
| 1,1-Dichloroethene-µg/L   |      | 0307378-01 | 64.7             | 50              | 55.2           | 85.3%            | 15.8% |
| 1,4-Dichlorobenzene-µg/L  |      | 0307378-01 | 40.3             | 50              | 31.6           | 78.2%            | 24.2% |
| 2-Butanone (MEK)-µg/L     |      | 0307378-01 | 104              | 100             | 108            | 103.8%           | 3.8%  |
| Chloroform-µg/L           |      | 0307378-01 | 56.3             | 50              | 51.5           | 91.5%            | 8.9%  |
| Tetrachloroethene-µg/L    |      | 0307378-01 | 36.1             | 50              | 28.6           | 79.2%            | 23.2% |
| Trichloroethene-µg/L      |      | 0307378-01 | 35.6             | 50              | 30.5           | 85.7%            | 15.4% |
| Vinyl chloride-µg/L       |      | 0307378-01 | 58.2             | 50              | 55.4           | 95.2%            | 4.9%  |
| <b>SRM</b>                | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| Chlorobenzene-µg/L        |      | 0006818-05 |                  | 50              | 44.8           | 89.6%            |       |
| 1,1-Dichloroethene-µg/L   |      | 0006818-05 |                  | 50              | 69.1           | 138.2%           |       |

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-30 East, Odessa, TX 79765

Ph: 915-563-1800

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

8260B TCLP

Order#: G0307378

| <b>SRM</b>          | <b>SOIL</b> | <b>LAB-ID #</b> | <b>Sample<br/>Concetr.</b> | <b>Spike<br/>Concetr.</b> | <b>QC Test<br/>Result</b> | <b>Pct (%)<br/>Recovery</b> | <b>RPD</b> |
|---------------------|-------------|-----------------|----------------------------|---------------------------|---------------------------|-----------------------------|------------|
| Chloroform-µg/L     |             | 0006818-05      |                            | 50                        | 60.1                      | 120.2%                      |            |
| Vinyl chloride-µg/L |             | 0006818-05      |                            | 50                        | 69.1                      | 138.2%                      |            |

Sep 16 03 04:46p

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****8270C Semivolatile Organics - TCLP****Order#: G0307378**

| <b>BLANK</b>                | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
|-----------------------------|------|------------|------------------|-----------------|----------------|------------------|-------|
| Pyridine-mg/kg              |      | 0006807-02 |                  |                 | <0.030         |                  |       |
| 1,4-Dichlorobenzene-mg/kg   |      | 0006807-02 |                  |                 | <0.030         |                  |       |
| 2-Methylphenol-mg/kg        |      | 0006807-02 |                  |                 | <0.030         |                  |       |
| Hexachloroethane-mg/kg      |      | 0006807-02 |                  |                 | <0.030         |                  |       |
| Nitrobenzene-mg/kg          |      | 0006807-02 |                  |                 | <0.030         |                  |       |
| Hexachlorobutadiene-mg/kg   |      | 0006807-02 |                  |                 | <0.030         |                  |       |
| 2,4,6-Trichlorophenol-mg/kg |      | 0006807-02 |                  |                 | <0.030         |                  |       |
| 2,4,5-Trichlorophenol-mg/kg |      | 0006807-02 |                  |                 | <0.030         |                  |       |
| 2,4-Dinitrotoluene-mg/kg    |      | 0006807-02 |                  |                 | <0.030         |                  |       |
| Hexachlorobenzene-mg/kg     |      | 0006807-02 |                  |                 | <0.030         |                  |       |
| Pentachlorophenol-mg/kg     |      | 0006807-02 |                  |                 | <0.030         |                  |       |
| 4-Methylphenol-mg/kg        |      | 0006807-02 |                  |                 | <0.030         |                  |       |
| <b>CONTROL</b>              | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| 1,4-Dichlorobenzene-mg/kg   |      | 0006807-03 |                  | 100             | 52.0           | 52.0%            |       |
| 2,4-Dinitrotoluene-mg/kg    |      | 0006807-03 |                  | 100             | 31.8           | 31.8%            |       |
| Pentachlorophenol-mg/kg     |      | 0006807-03 |                  | 100             | 65.6           | 65.6%            |       |
| <b>CONTROL DUP</b>          | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| 1,4-Dichlorobenzene-mg/kg   |      | 0006807-04 |                  | 100             | 54.0           | 54.0%            | 3.8%  |
| 2,4-Dinitrotoluene-mg/kg    |      | 0006807-04 |                  | 100             | 43.9           | 43.9%            | 32.0% |
| Pentachlorophenol-mg/kg     |      | 0006807-04 |                  | 100             | 86.4           | 86.4%            | 27.4% |
| <b>SRM</b>                  | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| 2,4,6-Trichlorophenol-mg/kg |      | 0006807-05 |                  | 50.0            | 55.6           | 111.2%           |       |
| Pentachlorophenol-mg/kg     |      | 0006807-05 |                  | 50.0            | 32.6           | 65.2%            |       |

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### METALS RCRA 7 TCLP

Order#: G0307378

| <b>BLANK</b>       | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
|--------------------|------|------------|------------------|-----------------|----------------|------------------|------|
| Arsenic-mg/L       |      | 0006729-02 |                  |                 | <0.008         |                  |      |
| Barium-mg/L        |      | 0006729-02 |                  |                 | <0.001         |                  |      |
| Cadmium-mg/L       |      | 0006729-02 |                  |                 | <0.001         |                  |      |
| Chromium-mg/L      |      | 0006729-02 |                  |                 | <0.002         |                  |      |
| Lead-mg/L          |      | 0006729-02 |                  |                 | <0.011         |                  |      |
| Selenium-mg/L      |      | 0006729-02 |                  |                 | <0.004         |                  |      |
| Silver-mg/L        |      | 0006729-02 |                  |                 | <0.002         |                  |      |
| <b>CONTROL</b>     | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |      | 0006729-03 |                  | 0.8             | 0.856          | 107.3%           |      |
| Barium-mg/L        |      | 0006729-03 |                  | 0.2             | 0.219          | 109.5%           |      |
| Cadmium-mg/L       |      | 0006729-03 |                  | 0.2             | 0.217          | 108.5%           |      |
| Chromium-mg/L      |      | 0006729-03 |                  | 0.2             | 0.216          | 108.3%           |      |
| Lead-mg/L          |      | 0006729-03 |                  | 1.1             | 1.28           | 116.4%           |      |
| Selenium-mg/L      |      | 0006729-03 |                  | 0.4             | 0.465          | 116.3%           |      |
| Silver-mg/L        |      | 0006729-03 |                  | 0.2             | 0.202          | 101.5%           |      |
| <b>CONTROL DUP</b> | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |      | 0006729-04 |                  | 0.8             | 0.858          | 107.3%           | 0.2% |
| Barium-mg/L        |      | 0006729-04 |                  | 0.2             | 0.218          | 109.5%           | 0.5% |
| Cadmium-mg/L       |      | 0006729-04 |                  | 0.2             | 0.220          | 110.0%           | 1.4% |
| Chromium-mg/L      |      | 0006729-04 |                  | 0.2             | 0.216          | 108.3%           | 0.0% |
| Lead-mg/L          |      | 0006729-04 |                  | 1.1             | 1.27           | 115.5%           | 0.8% |
| Selenium-mg/L      |      | 0006729-04 |                  | 0.4             | 0.489          | 122.2%           | 5.3% |
| Silver-mg/L        |      | 0006729-04 |                  | 0.2             | 0.215          | 107.5%           | 6.2% |
| <b>SRM</b>         | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |      | 0006729-05 |                  | 1               | 0.906          | 90.6%            |      |
| Barium-mg/L        |      | 0006729-05 |                  | 1               | 0.914          | 91.4%            |      |
| Cadmium-mg/L       |      | 0006729-05 |                  | 1               | 0.966          | 96.6%            |      |
| Chromium-mg/L      |      | 0006729-05 |                  | 1               | 0.937          | 93.7%            |      |
| Lead-mg/L          |      | 0006729-05 |                  | 1               | 1.04           | 104.4%           |      |
| Selenium-mg/L      |      | 0006729-05 |                  | 1               | 0.970          | 97.3%            |      |
| Silver-mg/L        |      | 0006729-05 |                  | 0.5             | 0.522          | 104.4%           |      |



Sep 16 03 04:47p

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### Test Parameters

Order#: G0307378

| <b>BLANK</b>           | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
|------------------------|------|------------|------------------|-----------------|----------------|------------------|------|
| Mercury, TCLP-mg/L     |      | 0006728-01 |                  |                 | <0.0005        |                  |      |
| pH-pH Units            |      | 0006741-01 |                  |                 | 6.00           |                  |      |
| Reactive Cyanide-mg/kg |      | 0006742-01 |                  |                 | <0.09          |                  |      |
| Reactive Sulfide-mg/kg |      | 0006743-01 |                  |                 | <5.00          |                  |      |
| <b>CONTROL</b>         | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Mercury, TCLP-mg/L     |      | 0006728-02 |                  | 0.001           | 0.00109        | 109.9%           |      |
| Reactive Cyanide-mg/kg |      | 0006742-02 |                  | 0.1             | 0.117          | 117.7%           |      |
| Reactive Sulfide-mg/kg |      | 0006743-02 |                  | 22.2            | 22.4           | 100.9%           |      |
| <b>CONTROL DUP</b>     | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Mercury, TCLP-mg/L     |      | 0006728-03 |                  | 0.001           | 0.00107        | 107.7%           | 1.9% |
| Reactive Cyanide-mg/kg |      | 0006742-03 |                  | 0.1             | 0.120          | 120.9%           | 2.5% |
| Reactive Sulfide-mg/kg |      | 0006743-03 |                  | 22.2            | 22.6           | 101.8%           | 0.9% |
| <b>DUPLICATE</b>       | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Ignitability-C         |      | 0307378-01 | 0                |                 | >100           |                  | 0.9% |
| pH-pH Units            |      | 0307378-01 | 7.3              |                 | 7.34           |                  | 0.5% |
| Reactive Cyanide-mg/kg |      | 0307378-01 | 0                |                 | <0.09          |                  | 0.9% |
| Reactive Sulfide-mg/kg |      | 0307378-01 | 0                |                 | <5.00          |                  | 0.9% |
| <b>SRM</b>             | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Mercury, TCLP-mg/L     |      | 0006728-04 |                  | 0.001           | 0.00100        | 100.0%           |      |
| pH-pH Units            |      | 0006741-04 |                  | 7               | 7.04           | 100.6%           |      |
| Reactive Cyanide-mg/kg |      | 0006742-04 |                  | 1               | 1.15           | 115.9%           |      |
| Reactive Sulfide-mg/kg |      | 0006743-04 |                  | 680             | 670            | 98.5%            |      |

|                                                                    |  |                                                                                                                                                                                                                                                                                                  |  |
|--------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| LAB # (lab use only)                                               |  | 0307398                                                                                                                                                                                                                                                                                          |  |
| FIELD CODE                                                         |  |                                                                                                                                                                                                                                                                                                  |  |
| Date Sampled                                                       |  | 9/3/03 10:00am                                                                                                                                                                                                                                                                                   |  |
| Time Sampled                                                       |  |                                                                                                                                                                                                                                                                                                  |  |
| No. of Containers                                                  |  | 1                                                                                                                                                                                                                                                                                                |  |
| Preservative                                                       |  | <input type="checkbox"/> H <sub>2</sub> O<br><input type="checkbox"/> HNO <sub>3</sub><br><input type="checkbox"/> HCl<br><input type="checkbox"/> NaOH<br><input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub><br><input type="checkbox"/> None<br><input type="checkbox"/> Other (Specify): |  |
| Matrix                                                             |  | <input type="checkbox"/> Water<br><input type="checkbox"/> Sludge<br><input checked="" type="checkbox"/> Soil<br><input type="checkbox"/> Other (Specify):                                                                                                                                       |  |
| TPH: 418.1 0015M 1009 1000                                         |  |                                                                                                                                                                                                                                                                                                  |  |
| Cations (Ca, Mg, Na, K)                                            |  |                                                                                                                                                                                                                                                                                                  |  |
| Anions (Cl, SO <sub>4</sub> , CO <sub>3</sub> , HCO <sub>3</sub> ) |  |                                                                                                                                                                                                                                                                                                  |  |
| SAR / ESP / CEC                                                    |  |                                                                                                                                                                                                                                                                                                  |  |
| Metals: As Ag Ba Ca Cd Cr Pb Hg Se                                 |  | X X X                                                                                                                                                                                                                                                                                            |  |
| Volatiles                                                          |  | X                                                                                                                                                                                                                                                                                                |  |
| Semi-volatiles                                                     |  |                                                                                                                                                                                                                                                                                                  |  |
| BTEX 8021B/5030 or STEX 8250                                       |  |                                                                                                                                                                                                                                                                                                  |  |
| RCI                                                                |  |                                                                                                                                                                                                                                                                                                  |  |
| N.O.R.M.                                                           |  |                                                                                                                                                                                                                                                                                                  |  |
| RUSH TAT (Pro-Schedule)                                            |  |                                                                                                                                                                                                                                                                                                  |  |
| Standard TAT                                                       |  |                                                                                                                                                                                                                                                                                                  |  |

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Conoco Phillips                  |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Calmon Compressor Station |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter Conoco Phillips Pickup Truck   |
| 7. Location of Material (Street Address or ULSTR) Calmon Compressor Station<br>GW-143                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8. State New Mexico                           |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator;<br>one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the<br>material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be<br>approved<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                               |

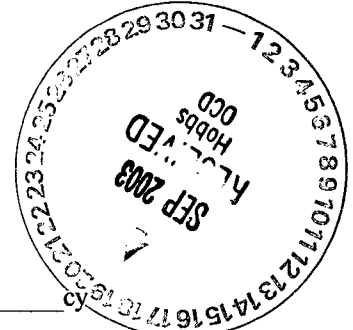
**BRIEF DESCRIPTION OF MATERIAL:**

RE: 09-19-03

Oil Storage tank sandblasting sand.

Enclosed is a chain of custody and analytical results.

Estimated Volume 1 yard Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_



SIGNATURE Kim Flowers TITLE: Rep DATE: 09-19-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

092903-2

(This space for State Use)

|                                |                                       |                      |
|--------------------------------|---------------------------------------|----------------------|
| APPROVED BY: _____             | TITLE: _____                          | DATE: _____          |
| APPROVED BY: <u>Philly JKH</u> | TITLE: <u>Environmental Geologist</u> | DATE: <u>9-29-03</u> |

**CERTIFICATE OF WASTE STATUS**  
**NON-EXEMPT WASTE MATERIAL**  
**"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

**COMPANY /GENERATOR** ConocoPhillips

**ADDRESS** 921 W. Sanger Hobbs, NM 88240

**GENERATING SITE** Calmon Compressor Station GW-143

**COUNTY** Eddy **STATE** NM

**TYPE OF WASTE** Spent sandblast sand

**ESTIMATED VOLUME** estimated 1 Yard

**GENERATING PROCESS** Oil storage tank sandblasting

**REMARKS** \_\_\_\_\_

**NMOCD FACILITY** Controlled Recovery Inc.

**TRUCKING COMPANY** ConocoPhillips Pickup Truck

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory determinations. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

**AGENT** Mark Bishop

**SIGNATURE**

**NAME** MARK BISHOP

**PRINTED**

**ADDRESS** 921 W. SANGER

HOBBS, NM 88240

**DATE** 9-19-03

**ARDINAL  
LABORATORIES**

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

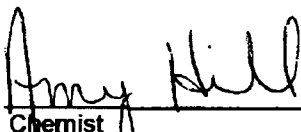
ANALYTICAL RESULTS FOR  
CONOCO PHILLIPS  
ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO: (505) 393-5493

Receiving Date: 09/11/03  
Reporting Date: 09/16/03  
Project Number: NOT GIVEN  
Project Name: CALMON SANDBLAST RESIDUE  
Project Location: CALMON COMPRESSOR STATION

Analysis Date: 09/15/03  
Sampling Date: 09/10/03  
Sample Type: SOLID  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: AH

| LAB NUMBER                  | SAMPLE ID         | Pb<br>(ppm) |
|-----------------------------|-------------------|-------------|
| H7995-1                     | SANDBLAST RESIDUE | 24.3        |
|                             |                   |             |
|                             |                   |             |
|                             |                   |             |
|                             |                   |             |
|                             |                   |             |
| Quality Control             |                   | 0.908       |
| True Value QC               |                   | 1.000       |
| % Recovery                  |                   | 90.8        |
| Relative Percent Difference |                   | 1.1         |

METHOD: EPA 600/4-79-020 239.1

  
Chemist

  
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

H7995



**ORDINAL LABORATORIES, INC.**

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page        of       

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

**† Cardinal cannot accept verbal changes. Please fax written changes to 818-673-7020.**

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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

SEP 17 2003  
Environmental Bureau  
Oil Conservation Division

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

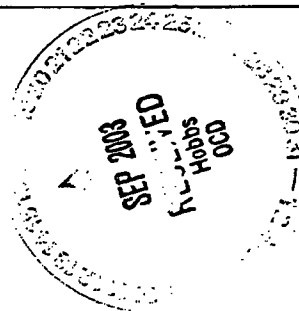
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br>Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>myk 9-17-03                                                                                                                                                                                                                                                                                                                                                                             | 4. Generator El Paso Company            |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Goldsmith cutout    |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter Chemical Transport, Inc. |
| 7. Location of Material (Street Address or ULSR) EPNG-Midland-Odessa-Goldsmith                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8. State Texas                          |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                         |

## BRIEF DESCRIPTION OF MATERIAL:

RE: 09-16-03

Wash water located in frac tank used to wash out pipeline.

Enclosed is a chain of custody and test results.

Estimated Volume 15,000 gallons Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 09-16-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079E-MAIL ADDRESS david@carihobbs.com

(This space for State Use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: Monty J. [Signature] TITLE: Environmental Geologist DATE: 9-17-03



## Fax Transmittal Coversheet

Date and Time: September 16, 2003, 3:56 PM

Pages Sent: 2+coversheet

|                       |                     |
|-----------------------|---------------------|
| Name of Recipient:    | David Parsons       |
| Company of Recipient: | Controlled Recovery |
| Complete Address:     | Hobbs, NM           |
| Fax Number:           | 505-393-3615        |
| Name of Sender:       | Bob St. John        |
| Phone Number:         | 432-686-3268        |
| Fax Number:           | 432-686-3215        |

Comments: David - This is the chain of custody for the sample of washwater EPNG would like CRI to dispose of for us. Note that on page 1 of 2 these nine grab samples were composited into one sample. Sample 2 (page 2 of 2) was from a drum that will be disposed of at a different facility.

Please contact me if you have any questions. EPNG would like to begin work on Thursday, September 18.

Thanks,  
Bob St. John



Sep 16 03 04:51P C R I  
09-16-03 14:40 OSD LABORATOR

ID=915 587 3835

P02/03

**alpaso**

0-304-0972

**CHAIN OF CUSTODY RECORD**

Page 1 of 2

[illegible]

ID=915 587 3835

P03/03

**el paso**

0-304-0972

### CHAIN OF CUSTODY RECORD

Page 2 of 2

[illegible]

Wm. T. Tasting Laboratory - EP Corp. Lab Phil. Field Sampler

FD-00-0265 (Rev. 2011)

Sep 16 03 04:51p  
08/26 AUG. 9. 1997 2:30AM

C R I

5053933615

No. 6566

P. 3/5 011/015

P. 6



## LABORATORY SERVICE REPORT

REQUESTOR: McFadden, Donnie  
Odessa, TX

REPORT DATE: 7/23/2003  
REQUEST NO: 2003040459  
APPROVED BY: Darrell Campbell

DISTRIBUTION: SL John, Robert; Whitney, Mark; Carrasco, Tom; Vega, Eddie

### PERFORMED BY:

Request Description: sludge from line 3082 @ Goldsmith cut out @ MP 0+0000 also, washwater located in frac tank used to wash out pipeline.  
Date Received: 4/18/2003  
Date Completed: 7/16/2003

Sample No. 1 Lab ID: 45026 Sampled By: Mark Whitney Sample Date: 4/17/2003 2:00:00 PM  
Description:  
Analysis: WP TCLP Anal (Aqueous)  
Purpose: Disposal/Environmental Concerns  
Matrix: Water  
Location: EPNG - Midland - Odessa - Goldsmith - 0+0 - Goldsmith Drum Storage - Wash Water from 3082 Line-Frac Tank #?

Sample No. 2 Lab ID: 45027 Sampled By: Mark Whitney Sample Date: 4/17/2003 3:00:00 PM  
Description:  
Analysis: WP TCLP & NORM Anal (Solid)  
Purpose: Disposal/Environmental Concerns  
Matrix: Sludge  
Location: EPNG - Midland - Odessa - Goldsmith - 0+0 - Goldsmith Drum Storage - 3082 Line Sludge

Data: See attached sheet(s).

Comments:

ORIGINAL

This report has been prepared for the private and exclusive use of El Paso Corporation and its affiliates and its delivery to any other person is upon the expressed understanding and condition that no representations or warranties, expressed or implied, are contained herein with respect to any of the information set forth in the report. If the purpose of this sample(s) is "External Corrosion", "Internal Corrosion", and/or "Pigging Samples", the interpretation of this report is the responsibility of Pipeline Services. Field Operations will only be contacted by Pipeline Services if the results require any action to be taken.

Aug. 9. 1997. 2:30AM.

No. 6586

P. 4/5

012/015

Request: 2003040459

Sample:

1

TCLP CharacteristicsIgnitability

Flash Point

"F"

&gt; 200

Corrosivity

pH

9.01

Reactivity

Cyanide(Reactive)

mg/Kg

&lt; 50.0

Sulfide(Reactive)

mg/Kg

&lt; 100.0

TCLP Metals

Arsenic

mg/l

1.0

Barium

mg/l

&lt; 5.0

Cadmium

mg/l

&lt; 0.5

Chromium

mg/l

&lt; 1.0

Lead

mg/l

&lt; 1.0

Mercury

mg/l

&lt; 0.05

Selenium

mg/l

&lt; 0.5

Silver

mg/l

&lt; 0.5

TCLP 8260

1,1 Dichloroethene

mg/l

&lt; 0.10

1,2 Dichloroethane

mg/l

&lt; 0.10

1,4-Dichlorobenzene

mg/l

&lt; 0.10

Benzene

mg/l

&lt; 0.10

Carbon Tetrachloride

mg/l

&lt; 0.10

Chlorobenzene

mg/l

&lt; 0.10

Chloroform

mg/l

&lt; 0.10

2-Butanone

mg/l

&lt; 0.50

Tetrachloroethene

mg/l

&lt; 0.10

Trichloroethene

mg/l

&lt; 0.10

Vinyl Chloride

mg/l

&lt; 0.10

TCLP 8270

1,4-Dichlorobenzene

mg/l

&lt; 0.10

2,4,5- Trichlorophenol

mg/l

&lt; 1.0

2,4,6- Trichlorophenol

mg/l

&lt; 1.0

2,4- Dinitrotoluene

mg/l

&lt; 0.040

Hexachlorobenzene

mg/l

&lt; 0.060

Hexachlorobutadiene

mg/l

&lt; 0.20

Hexachlorocyclohexane

mg/l

&lt; 0.20

Nitrobenzene

mg/l

&lt; 0.20

Pentachlorophenol

mg/l

&lt; 1.2

Pyridine

mg/l

&lt; 0.20

2-Methylphenol

mg/l

&lt; 0.50

3&amp;4-Methylphenols, Total

mg/l

0.53

PCB Analysis

Aroclor 1016

µg/l

NT

Aroclor 1221

µg/l

NT

Aug. 9. 1997. 2:30AM

No. 6566

P. 5/5

013/015

08/26/2000 10:13:40 FAX

Request: 2003040459

Sample:

|              |      |                    |
|--------------|------|--------------------|
| Aroclor 1232 | µg/l | <sup>1</sup><br>NT |
| Aroclor 1242 | µg/l | NT                 |
| Aroclor 1248 | µg/l | NT                 |
| Aroclor 1254 | µg/l | NT                 |
| Aroclor 1260 | µg/l | NT                 |

RECEIVED

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

State of New Mexico  
Energy Minerals and Natural Resources

AUG 11 2003

Form C-138  
Revised June 10, 2003

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

OIL CONSERVATION  
DIVISION

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Frontier Energy           |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Maljamar Gas Plant |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter CRI                     |
| 7. Location of Material (Street Address or ULSTR) Maljamar, New Mexico                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8. State New Mexico                    |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                        |

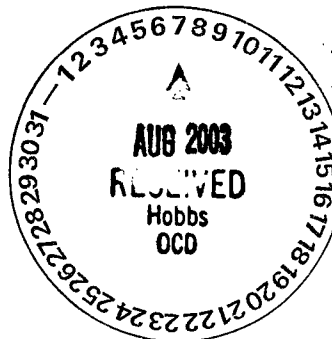
BRIEF DESCRIPTION OF MATERIAL:

RE: 08-06-03

Used Compressor Filters – Absorbent Pads – Dust Filters

Facility was purchased by Frontier on 05-01-03 from Conoco.

Attached is an Analytical result. We are requesting an extension of this until 07-01-04.



Estimated Volume 18 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE [Signature] TITLE: Rep DATE: 08-06-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Lary Parker TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

(This space for State Use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 8/15/03

**Frontier**  
**Field Services, LLC**

---

Johnny Lackey  
Manager, Compliance  
Frontier Energy Services, LLC  
Maljamar, NM

Frontier Field Services, LLC  
1001 Conoco Road  
P.O. Box 7  
Maljamar, NM 88264  
Phone -505-676-3505  
Cell (505) 361-0128  
jlackey@frontierenergyllc.com

8/5/2003

Mr. Lary Parker  
Controlled Recovery, Inc. (CRI)  
P.O. Box 388  
Hobbs, NM 88241

**Re: Non-Hazardous Waste Material  
Maljamar Gas Plant, Lea County  
Frontier Field Services, LLC**

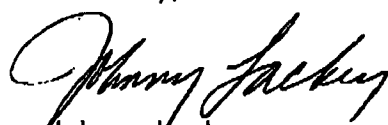
Dear Mr. Parker;

This letter is to acknowledge that Frontier Energy Services, LLC has purchased the Maljamar, NM Gas Processing Facilities from ConocoPhillips, effective May 12, 2003 and will operate the plant and gas gathering system under the name of Frontier Field Services, LLC.

The non-hazardous waste streams generated at the plant have not changed from when ConocoPhillips owned and operated the facility. Frontier Field Services will continue to operate the facility as before and will follow all guidelines regarding wastes generated at our Maljamar operation. You have the most recent sample analysis of our waste streams, but they are under ConocoPhillips name on the analysis sheets. These samples are still valid and future samples will be in Frontier's name.

If you have any questions or need additional information regarding this acknowledgement please call me at 505-676-3505.

Sincerely,

  
Johnny Lackey



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

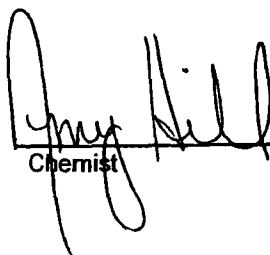
ANALYTICAL RESULTS FOR  
CONOCO, INC.  
ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 06/28/02  
Reporting Date: 07/02/02  
Project Number: NOT GIVEN  
Project Name: WASTE PROFILE  
Project Location: NOT GIVEN

Sampling Date: 06/28/02  
Sample Type: SOLID  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: AH

TCLP METALS

| LAB NO. SAMPLE ID                                                                                                     | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|-----------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ANALYSIS DATE:                                                                                                        | 06/11/02  | 06/12/02  | 06/12/02  | 06/12/02  | 06/12/02  | 06/12/02  | 06/12/02  | 06/11/02  |
| EPA LIMITS:                                                                                                           | 5         | 5         | 100       | 1         | 5         | 5         | 0.2       | 1         |
| H6854-1 COMP. OF USED<br>ENGINE OIL<br>FILTERS, ABSORB-<br>ENT PADS, ABSORB-<br>ENT SOCKS, MOLE<br>SEIVE DUST FILTERS | <1        | <1        | <5        | <0.1      | <1        | <1        | <0.02     | <0.1      |
| Quality Control                                                                                                       | 0.056     | 4.872     | 26.35     | 1.003     | 4.793     | 5.030     | 0.0101    | 0.055     |
| True Value QC                                                                                                         | 0.050     | 5.000     | 25.00     | 1.000     | 5.000     | 5.000     | 0.0100    | 0.050     |
| % Recovery                                                                                                            | 112       | 97.4      | 105       | 100       | 95.9      | 101       | 101       | 110       |
| Relative Standard Deviation                                                                                           | 2.1       | 0.3       | 1.7       | 0.1       | 1.3       | 0.1       | 1.0       | 6.2       |
| METHODS: EPA 1311, 600/4-91/0                                                                                         | 206.2     | 272.1     | 208.1     | 213.1     | 218.1     | 239.1     | 245.1     | 270.2     |

  
Chemist

7-2-02  
Date

H6854

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONOCO, INC.  
ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 06/28/02  
Reporting Date: 07/03/02  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: NOT GIVEN

Sampling Date: 06/28/02  
Sample Type: SOLID  
Sample Condition: COOL & INTAC  
Sample Received By: AH  
Analyzed By: AH/BC

| LAB NO. SAMPLE ID                                                                            | REACTIVITY       |                  |                     |                      |
|----------------------------------------------------------------------------------------------|------------------|------------------|---------------------|----------------------|
|                                                                                              | Sulfide<br>(ppm) | Cyanide<br>(ppm) | CORROSIVITY<br>(pH) | IGNITABILITY<br>(°F) |
| ANALYSIS DATE:                                                                               | 07/02/02         | 07/02/02         | 06/29/02            | 06/29/02             |
| H6854-1 COMPOSITE OF USED<br>ENGINE OIL, ABSORB.<br>PADS & SOCKS, MOL.<br>SIEVE DUST FILTERS | Not reactive     | Not reactive     | 6.58                | Nonflammable         |
|                                                                                              |                  |                  |                     |                      |
|                                                                                              |                  |                  |                     |                      |
|                                                                                              |                  |                  |                     |                      |
|                                                                                              |                  |                  |                     |                      |
| Quality Control                                                                              | NR               | NR               | 6.99                | NR                   |
| True Value QC                                                                                | NR               | NR               | 7.00                | NR                   |
| % Recovery                                                                                   | NR               | NR               | 99.9                | NR                   |
| Relative Percent Difference                                                                  | NR               | NR               | 0.1                 | NR                   |

METHOD: EPA SW-846 7.3, 7.2, 1030 (proposed), 1311, 40 CFR 261

*Bryant A. Cook*  
Chemist

*7/3/02*  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



# ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONOCO, INC.  
ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 06/28/02  
Reporting Date: 07/03/02  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: NOT GIVEN  
Lab Number: H6854-1

Analysis Date: 07/02/02  
Sampling Date: 06/28/02  
Sample Type: SOLID  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

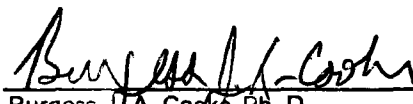
Sample ID: COMPOSITE OF USED ENGINE OIL, ABSORBENT  
PADS, ABSORBENT SOCKS, MOLECULAR SIEVE DUST FILTERS

| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H6854-1 | Method<br>Blank | QC    | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|-------|---------|------------------|
| Vinyl Chloride       | 0.20         | <0.005                   | <0.005          | 0.102 | 102     | 0.100            |
| 1,1-Dichloroethylene | 0.7          | <0.005                   | <0.005          | 0.100 | 100     | 0.100            |
| Methyl Ethyl Ketone  | 200          | <0.050                   | <0.050          | 0.085 | 85      | 0.100            |
| Chloroform           | 6.0          | 0.007                    | <0.005          | 0.086 | 86      | 0.100            |
| 1,2-Dichloroethane   | 0.5          | <0.005                   | <0.005          | 0.087 | 87      | 0.100            |
| Benzene              | 0.5          | 0.108                    | <0.005          | 0.103 | 103     | 0.100            |
| Carbon Tetrachloride | 0.5          | <0.005                   | <0.005          | 0.111 | 111     | 0.100            |
| Trichloroethylene    | 0.5          | <0.005                   | <0.005          | 0.092 | 92      | 0.100            |
| Tetrachloroethylene  | 0.7          | <0.005                   | <0.005          | 0.092 | 92      | 0.100            |
| Chlorobenzene        | 100          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| 1,4-Dichlorobenzene  | 7.5          | <0.005                   | <0.005          | 0.101 | 101     | 0.100            |

## % RECOVERY

|                      |    |
|----------------------|----|
| Dibromofluoromethane | 86 |
| Toluene-d8           | 91 |
| Bromofluorobenzene   | 92 |

METHODS: EPA SW 846-8260, 1311

  
Burgess J.A. Cooke, Ph. D.

7/3/02  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONOCO, INC.  
ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 06/28/02  
Reporting Date: 07/03/02  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: NOT GIVEN  
Lab Number: H6854-1

Analysis Date: 07/02/02  
Sampling Date: 06/28/02  
Sample Type: SOLID  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

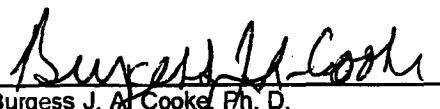
Sample ID: COMPOSITE OF USED ENGINE OIL, ABSORBENT  
PADS, ABSORBENT SOCKS, MOLECULAR SIEVE DUST FILTERS

| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H6854-1 | Method<br>Blank | QC    | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|-------|---------|------------------|
| Vinyl Chloride       | 0.20         | <0.005                   | <0.005          | 0.102 | 102     | 0.100            |
| 1,1-Dichloroethylene | 0.7          | <0.005                   | <0.005          | 0.100 | 100     | 0.100            |
| Methyl Ethyl Ketone  | 200          | <0.050                   | <0.050          | 0.085 | 85      | 0.100            |
| Chloroform           | 6.0          | 0.007                    | <0.005          | 0.086 | 86      | 0.100            |
| 1,2-Dichloroethane   | 0.5          | <0.005                   | <0.005          | 0.087 | 87      | 0.100            |
| Benzene              | 0.5          | 0.108                    | <0.005          | 0.103 | 103     | 0.100            |
| Carbon Tetrachloride | 0.5          | <0.005                   | <0.005          | 0.111 | 111     | 0.100            |
| Trichloroethylene    | 0.5          | <0.005                   | <0.005          | 0.092 | 92      | 0.100            |
| Tetrachloroethylene  | 0.7          | <0.005                   | <0.005          | 0.092 | 92      | 0.100            |
| Chlorobenzene        | 100          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| 1,4-Dichlorobenzene  | 7.5          | <0.005                   | <0.005          | 0.101 | 101     | 0.100            |

% RECOVERY

|                      |    |
|----------------------|----|
| Dibromofluoromethane | 86 |
| Toluene-d8           | 91 |
| Bromofluorobenzene   | 92 |

METHODS: EPA SW 846-8260, 1311

  
Burgess J. A. Cooke, Ph. D.

7/03/02  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

**CARDINAL LABORATORIES, INC.**

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240

(915) 673-7001 Fax (915) 673-7020 (505) 393-2328 Fax (505) 393-2476

Price of \_\_\_\_\_

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

**+ Cardinal cannot accept verbal changes. Please fax written changes to (916) 673-7020.**

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

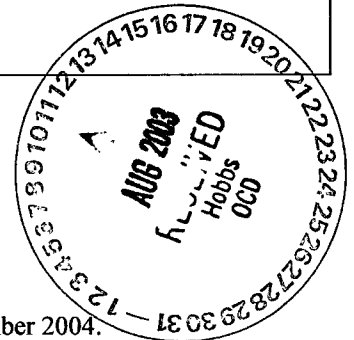
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                           | 4. Generator Duke Energy Field Service |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5. Originating Site Loving Plant       |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6. Transporter CRI                     |
| 7. Location of Material (Street Address or ULSTR) 260 Potash Mines Rd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8. State New Mexico                    |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                        |

### BRIEF DESCRIPTION OF MATERIAL:

RE: 08-11-03

Waste water generated from sumps/rain water.

Enclosed is certificate of waste status, analytical data, and chain of custody to extend this process until September 2004.



Estimated Volume 600 BBLS (year) Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 08-11-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

|                                 |                                       |                      |
|---------------------------------|---------------------------------------|----------------------|
| (This space for State Use)      |                                       |                      |
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>ENVIRO ENGR</u>             | DATE: <u>8/12/03</u> |
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>Environmental Geologist</u> | DATE: <u>8/13/03</u> |

081303-1

OCT-09-02 14:23 From: 8152219

18042716796

7-102 P. 12/12 Job-428

State of New Mexico  
Geology and Natural Resources

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

Form C-12B  
Revised March 17, 1999

Submit Original  
File 1 Copy  
to Appropriate  
District Office

### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

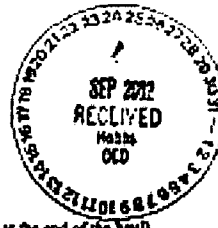
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------|
| 1. RCRA Exempt <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> X<br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X                                                                                                                                                                                                                                                                                                                               |  | 4. Generator: Duke Energy Field Services |
| 2. Management Facility Destination: Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 5. Originating Site: Loving Plant        |
| 3. Address of Facility Operator: P.O. Box 386, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 6. Transporter: CRU                      |
| 7. Location of Material (Street Address or ULSIR): 260 Potash Mines Rd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 8. State: New Mexico                     |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator, one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by testing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |  | Loving, New Mexico                       |

#### BRIEF DESCRIPTION OF MATERIAL:

09-21-02A

Waste water generated from pumps/rain water.

Enclosed is certificate of waste status, analytical data, and chain of custody to extend this process until October 1, 2003.



Estimated Volume: approx. 120 bbls. every 30 days. (If known, Volume (to be entered by the operator at the end of the line)) \_\_\_\_\_

SIGNATURE: Carmella Van Maren TITLE: Bookkeeper DATE: 09-23-02  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maren TELEPHONE NO.: (505) 393-1079

|                                 |                                       |                      |
|---------------------------------|---------------------------------------|----------------------|
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>Environmental Geologist</u> | DATE: <u>9/24/02</u> |
|---------------------------------|---------------------------------------|----------------------|



DUKE ENERGY FIELD SERVICES

3300 North A Street

Building 7

Midland, TX 79705

432 620 4000

August 12, 2003

New Mexico Oil Conservation Division  
Ms. Martyne Kieling  
1220 South St. Francis Drive  
Santa Fe, NM 87505

RE: East Carlsbad/Loving Plant  
Operated by Duke Energy Field Services, LP  
Eddy County, New Mexico  
Waste Water Generated from Sumps/Rain Water  
C138 dated 9/23/02  
Laboratory Results Dated 9/19/02

Dear Ms. Kieling,

The generating process for this waste water has not changed since original submittal. Duke Energy Field Services, LP, therefore requests approval to continue to use this analysis through September 2004 for wastes related to C138.

Thank you for your consideration.

Sincerely,

Duke Energy Field Services, LP

A handwritten signature in cursive script, appearing to read "Lynn Ward".

Lynn Ward  
Environmental Specialist  
Western Division

Cc: G. Kardos  
R. Counts  
D. Vasquez  
File 4.1.7

**CERTIFICATE OF WASTE STATUS**  
**NON-EXEMPT WASTE MATERIAL**  
**"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Duke Energy Field Services

ADDRESS 2100 Polk mines Rd, Lovington, NM

GENERATING SITE Lovington Plant

COUNTY Eddy STATE NM

TYPE OF WASTE Waste Water

ESTIMATED VOLUME 1000 bbls (year)

GENERATING PROCESS Sumps / Rain Water

REMARKS \_\_\_\_\_

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Controlled Recovery, Inc.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Lynn Ward  
SIGNATURE

NAME LYNN WARD  
PRINTED

ADDRESS 3300 N. A St., Bldg 7

Midland, TX 79705

DATE 8/11/03





PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONTROLLED RECOVERY, INC.

ATTN: KEN MARSH

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 09/13/02

Reporting Date: 09/19/02

Project Owner: DEFS

Project Name: SUMP

Project Location: EDDY COUNTY, NM

Sampling Date: 09/13/02

Sample Type: WASTEWATER

Sample Condition: COOL & INTACT

Sample Received By: BC

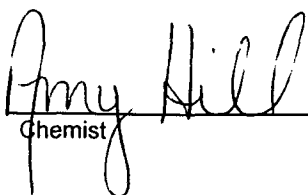
Analyzed By: AH

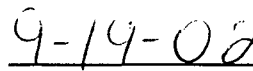
TCLP METALS

| LAB NO. | SAMPLE ID | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

|                             |          |          |          |          |          |          |          |          |          |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| ANALYSIS DATE:              | 09/18/02 | 09/19/02 | 09/19/02 | 09/19/02 | 09/19/02 | 09/19/02 | 09/19/02 | 09/19/02 | 09/18/02 |
| EPA LIMITS:                 | 5        | 5        | 100      | 1        | 5        | 5        | 0.2      | 1        |          |
| H7032-1 SUMPS               | <1       | <1       | <5       | <0.1     | <1       | <1       | <0.02    | <0.1     |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
| Quality Control             | 0.052    | 4.938    | 24.88    | 0.987    | 4.775    | 4.876    | 0.0101   | 0.053    |          |
| True Value QC               | 0.050    | 5.000    | 25.00    | 1.000    | 5.000    | 5.000    | 0.0100   | 0.050    |          |
| % Recovery                  | 104      | 98.8     | 99.5     | 98.7     | 95.5     | 97.5     | 101.0    | 106      |          |
| Relative Standard Deviation | 4.5      | 0.1      | 3.1      | 0.3      | 1.0      | 0.2      | 1.0      | 8.8      |          |

|                              |       |       |       |       |       |       |       |       |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| METHODS: EPA 1311, 600/4-91, | 206.2 | 272.1 | 208.1 | 213.1 | 218.1 | 239.1 | 245.1 | 270.2 |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|

  
Chemist

  
Date

H7032

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

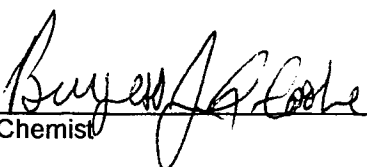
ANALYTICAL RESULTS FOR  
CONTROLLED RECOVERY, INC.  
ATTN: KEN MARSH  
P.O. BOX 388  
HOBBS, NM 88241  
FAX TO: (505) 393-3615

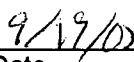
Receiving Date: 09/13/02  
Reporting Date: 09/19/02  
Project Owner: DEFS/LOVING  
Project Name: SUMP  
Project Location: EDDY COUNTY, NM

Sampling Date: 09/13/02  
Sample Type: WASTEWATER  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: AH/BC

| LAB NO. SAMPLE ID           | REACTIVITY       |                  |                     |                      |
|-----------------------------|------------------|------------------|---------------------|----------------------|
|                             | Sulfide<br>(ppm) | Cyanide<br>(ppm) | CORROSIVITY<br>(pH) | IGNITABILITY<br>(°F) |
| ANALYSIS DATE:              | 09/17/02         | 09/17/02         | 09/16/02            | 09/16/02             |
| H7032-1 SUMPS               | Not reactive     | Not reactive     | 6.68                | >140                 |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
| Quality Control             | NR               | NR               | 6.99                | NR                   |
| True Value QC               | NR               | NR               | 7.00                | NR                   |
| % Recovery                  | NR               | NR               | 100                 | NR                   |
| Relative Percent Difference | NR               | NR               | 0                   | NR                   |

METHOD: EPA SW-846 7.3, 7.2, 1010, 1311, 40 CFR 261

  
Chemist

  
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. **Cardinal** be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by **Cardinal**, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONTROLLED RECOVERY, INC.

ATTN: KEN MARSH

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 09/13/02

Reporting Date: 09/16/02

Project Owner: DEFS/LOVING

Project Name: SUMP

Project Location: EDDY COUNTY, NM

Lab Number: H7032-1

Sample ID: SUMPS

Analysis Date: 09/13/02

Sampling Date: 09/13/02

Sample Type: WASTEWATER

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

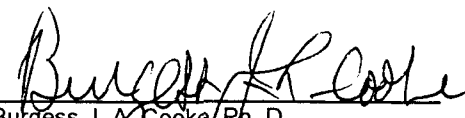
| TCLP SEMIVOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7032-1 | Method<br>Blank | QC | % Recov. | True Value<br>QC |
|--------------------------|--------------|--------------------------|-----------------|----|----------|------------------|
|--------------------------|--------------|--------------------------|-----------------|----|----------|------------------|

|                          |       |        |        |       |     |       |
|--------------------------|-------|--------|--------|-------|-----|-------|
| Pyridine                 | 5.00  | <0.050 | <0.005 | 0.041 | 82  | 0.050 |
| 1,4-Dichlorobenzene      | 7.50  | <0.050 | <0.005 | 0.033 | 66  | 0.050 |
| o-Cresol                 | 200   | <0.050 | <0.005 | 0.044 | 88  | 0.050 |
| m, p-Cresol              | 200   | <0.050 | <0.005 | 0.041 | 82  | 0.050 |
| Hexachloroethane         | 3.00  | <0.050 | <0.005 | 0.029 | 58  | 0.050 |
| Nitrobenzene             | 2.00  | <0.050 | <0.005 | 0.044 | 88  | 0.050 |
| Hexachloro-1,3-butadiene | 0.500 | <0.050 | <0.005 | 0.033 | 66  | 0.050 |
| 2,4,6-Trichlorophenol    | 2.00  | <0.050 | <0.005 | 0.053 | 106 | 0.050 |
| 2,4,5-Trichlorophenol    | 400   | <0.050 | <0.005 | 0.052 | 104 | 0.050 |
| 2,4-Dinitrotoluene       | 0.130 | <0.050 | <0.005 | 0.046 | 92  | 0.050 |
| Hexachlorobenzene        | 0.130 | <0.050 | <0.005 | 0.053 | 106 | 0.050 |
| Pentachlorophenol        | 100   | <0.050 | <0.005 | 0.046 | 92  | 0.050 |

% RECOVERY

|                      |     |
|----------------------|-----|
| Fluorophenol         | 69  |
| Phenol-d5            | 50  |
| Nitrobenzene-d5      | 88  |
| 2-Fluorobiphenyl     | 73  |
| 2,4,6-Tribromophenol | 107 |
| Terphenyl-d14        | 95  |

METHODS: EPA SW-846 1311, 8270, 3510

  
Burgess J. A. Cooke, Ph. D.

9/16/02  
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONTROLLED RECOVERY, INC.

ATTN: KEN MARSH

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 09/13/02

Reporting Date: 09/16/02

Project Owner: DEFS/LOVING

Project Name: SUMP

Project Location: EDDY COUNTY, NM

Lab Number: H7032-1

Sample ID: SUMPS

Analysis Date: 09/13/02

Sampling Date: 09/13/02

Sample Type: WASTEWATER

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

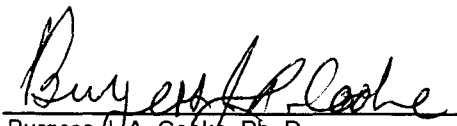
| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7032-1 | Method<br>Blank | QC | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|----|---------|------------------|
|----------------------|--------------|--------------------------|-----------------|----|---------|------------------|

|                      |      |        |        |       |     |       |
|----------------------|------|--------|--------|-------|-----|-------|
| Vinyl Chloride       | 0.20 | <0.005 | <0.005 | 0.109 | 109 | 0.100 |
| 1,1-Dichloroethylene | 0.7  | <0.005 | <0.005 | 0.095 | 95  | 0.100 |
| Methyl Ethyl Ketone  | 200  | <0.050 | <0.050 | 0.084 | 84  | 0.100 |
| Chloroform           | 6.0  | <0.005 | <0.005 | 0.087 | 87  | 0.100 |
| 1,2-Dichloroethane   | 0.5  | <0.005 | <0.005 | 0.090 | 90  | 0.100 |
| Benzene              | 0.5  | <0.005 | <0.005 | 0.114 | 114 | 0.100 |
| Carbon Tetrachloride | 0.5  | <0.005 | <0.005 | 0.109 | 109 | 0.100 |
| Trichloroethylene    | 0.5  | <0.005 | <0.005 | 0.098 | 98  | 0.100 |
| Tetrachloroethylene  | 0.7  | <0.005 | <0.005 | 0.091 | 91  | 0.100 |
| Chlorobenzene        | 100  | <0.005 | <0.005 | 0.101 | 101 | 0.100 |
| 1,4-Dichlorobenzene  | 7.5  | <0.005 | <0.005 | 0.091 | 91  | 0.100 |

% RECOVERY

|                      |     |
|----------------------|-----|
| Dibromofluoromethane | 95  |
| Toluene-d8           | 100 |
| Bromofluorobenzene   | 102 |

METHODS: EPA SW 846-8260, 1311

  
Burgess J. A. Cooke, Ph. D.

9/16/02  
Date



**CARDINAL LABORATORIES, INC.**  
3444 Beechwood Avenue, TX 780

2111 Beechwood, Abilene, TX 79603 101 East Maryland, Hobbe, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2328 Fax (505) 383-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                             | 4. Generator Dowell Schlumberger |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5. Originating Site Hobbs        |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6. Transporter CRI               |
| 7. Location of Material (Street Address or ULSTR) 1105 W Bender, Hobbs, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8. State New Mexico              |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved<br><br>All transporters must certify the wastes delivered are only those consigned for transport. |                                  |

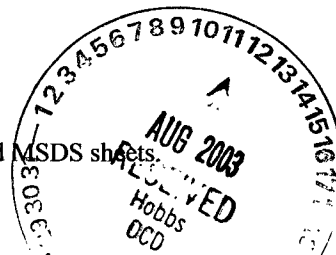
### BRIEF DESCRIPTION OF MATERIAL:

RE: 08-12-03

Oilfield cement blend consisting of 70% Cement (D903) and 30% Flyash (D132). See included MSDS sheets.

Enclosed is certificate of Waste status and MSDS sheets.

This request is for 1 year.



Estimated Volume 10,000 lb (monthly) Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 08-12-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

081303-2

(This space for State Use)

|                                 |                                       |                      |
|---------------------------------|---------------------------------------|----------------------|
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>ENVIRO ENGR</u>             | DATE: <u>8/12/03</u> |
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>Environmental Geologist</u> | DATE: <u>8/13/03</u> |

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Dowell Schlumberger

ADDRESS 1105 W. Bender

GENERATING SITE Hobbs NM 88240

COUNTY Lea STATE NM

TYPE OF WASTE oilfield cement

ESTIMATED VOLUME 10,000 lbs / month

GENERATING PROCESS samples gathered for  
testing of blended cement

REMARKS \_\_\_\_\_

NMOCF FACILITY Controlled Recovery Inc

TRUCKING COMPANY CRJ

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Darwin Thompson  
SIGNATURE

NAME Darwin Thompson  
PRINTED

ADDRESS 1105 W. Bender

Hobbs, NM 88240

DATE \_\_\_\_\_

**Schlumberger****MATERIAL SAFETY DATA SHEET**

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

PRODUCT CODE:

D903

Effective Date:

19-December-2001

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Identification of the substance or preparation:

**Cement Class C D903**

Company/undertaking identification:

Schlumberger

110 Schlumberger Drive

Sugar Land, Texas 77478, USA

Corporate Emergency Phone:

USA 1-281-595-3518

Corporate Non-Emergency Phone:

USA 1-281-285-7873

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

PORTLAND CEMENT; CAS 65997-15-1; 60-100%

**3. HAZARDS IDENTIFICATION**

Emergency Overview

Form:

Powder

Color:

Gray

Odor:

Typical

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

Dust

Main Health Hazards:

HMIS RATING: Health 2 Flammability 0 Reactivity 0

May cause allergic reaction upon repeated skin exposure. May cause eye irritation. May cause respiratory tract irritation. Causes irritation if swallowed. May cause skin irritation.

See Section 11 for a complete discussion of health hazards.

**4. FIRST AID MEASURES**

Eye contact:

Immediately flush eyes with water for 15 minutes while holding eyelids open. Seek medical attention.

Skin contact:

Remove contaminated clothes and shoes. Wash thoroughly with soap and water. Seek medical attention if irritation occurs.

Inhalation:

Remove to fresh air. Seek medical attention if irritation persists or you feel unwell.

Swallowing:

DO NOT induce vomiting. Give 2 glasses of milk (preferred) or water and seek medical attention at once.

Notes:

None.



---

PRODUCT CODE: D903 Effective Date: 19-December-2001

---

**5. FIRE FIGHTING MEASURES**

Extinguishing media: None needed  
Further Information: None known.  
Flash point: Not combustible.  
Method: Not applicable  
Flammability (explosion limits in air):  
Lower: Not applicable Upper: Not applicable  
Autoflammability (auto-ignition temperature): Not applicable  
Explosive properties (thermal decomposition temperature): Not determined  
NFPA Rating: Health 2 Flammability 0 Reactivity 0 Other: None  
Combustion products: see Section 10.

**6. ACCIDENTAL RELEASE MEASURES**

After spillage/leakage: Scoop into containers. Flush residual with plenty of water.  
See Section 8 for protective equipment information.  
See Section 13 for disposal information.

**7. HANDLING AND STORAGE**

Special Precautions: Keep material dry.  
Packaging requirements: Paper bag (minimum 3 ply), or other industrial container designed for powders and granulated materials.  
Ventilation: Provide ventilation to keep airborne concentrations below exposure limits.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory protection: Use NIOSH approved respirator with dust and mist protection (3M 8210).  
Eye protection: Chemical splash goggles.  
Hand protection: Impervious gloves made of: Rubber  
Skin protection: Clean, body-covering clothing.  
Exposure Limit Guidelines (mg/m3)  
No components have established exposure limits.  
Dust particles: total = 10 mg/m3, respirable fraction = 5 mg/m3.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form: Powder  
Color: Gray  
Odor: Typical  
pH value: in water 11-13  
Boiling point: Not applicable  
Pour point: Not applicable  
Vapor pressure: Not applicable  
Relative density (specific gravity): Approximately 3.0  
Bulk Density (solids): Not determined

---

PRODUCT CODE: **D903** Effective Date: **19-December-2001**

|                                 |                     |
|---------------------------------|---------------------|
| Solubility in water:            | Miscible with water |
| Viscosity:                      | Not applicable      |
| Relative Vapor Density (air=1): | Not applicable      |
| % Volatile:                     | <1                  |
| Nature                          | Alkaline            |

#### **10. STABILITY AND REACTIVITY**

|                                   |                 |
|-----------------------------------|-----------------|
| Stability:                        | Stable.         |
| Conditions to avoid:              | None known      |
| Materials to avoid:               | Acids           |
| Hazardous Polymerization:         | Will not occur. |
| Dust explosion hazard (solids):   | No.             |
| Special hazards:                  | None.           |
| Hazardous decomposition products: | None.           |

#### **11. TOXICOLOGICAL INFORMATION**

|                                      |                                                                      |
|--------------------------------------|----------------------------------------------------------------------|
| Eye contact:                         | Irritant. May cause pain, redness, discomfort.                       |
| Skin contact:                        | Irritant; may cause pain, redness, dermatitis.                       |
| Inhalation:                          | Irritant; may cause pain and coughing.                               |
| Ingestion:                           | Irritant; may cause pain or discomfort to mouth, throat and stomach. |
| Carcinogenicity:                     | Not listed by IARC, USA NTP, or USA OSHA.                            |
| Mutagenicity:                        | Not known to cause heritable genetic damage.                         |
| Teratogenicity:                      | Not known to cause birth defects.                                    |
| Target organs which may be affected: | None known.                                                          |
| Sensitization:                       | May cause allergic reaction upon repeated skin exposure.             |
| Other:                               | None.                                                                |

#### **12. ECOLOGICAL INFORMATION**

|                                    |                       |
|------------------------------------|-----------------------|
| Information on product as a whole: |                       |
| Main environmental hazards:        | None known.           |
| Degradability:                     | Not applicable        |
| Fish Toxicity:                     | Low toxicity to fish. |

#### **13. DISPOSAL CONSIDERATIONS**

|               |                                                                                                                                                                          |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product:      | Dispose of by sanitary landfilling or other acceptable method in accordance with local regulations.                                                                      |
| Container:    | Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations. |
| USA EPA RCRA: | None                                                                                                                                                                     |

---

PRODUCT CODE: **D903** Effective Date: **19-December-2001**

**14. TRANSPORT INFORMATION**

ICC Tariff Classification **Cement**  
ICC Item Number: **42130** ICC Class: **50 LTL 35 TL**  
CERCLA RQ: **Not established.**  
Department of Transportation (DOT)

Designation: **Not Regulated**  
Hazard Class: **Not Regulated**  
Shipping Name: **Not Regulated**  
DOT Label:

**Canadian Shipments**

Shipping Name: **Not Regulated**  
Label:  
Classification: **Package Group:** **PIN: none**

**15. REGULATORY INFORMATION**

Notification/restrictions status:

**USA:**

All components of this material are on the USA TSCA inventory, or the components are exempt from inventory reporting.

**CANADA:**

All components of this material are on the Canada DSL, or the components are exempt from inventory reporting.

This product contains no chemicals subject to the USEPA reporting requirements of SARA 313.

The USEPA CERCLA Reportable Quantity (RQ) for this product as a whole is: **Not established.**

Canadian WHMIS classification: **D2B**

**16. OTHER INFORMATION**

Sections affected by last revision:

**IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

\*Mark of Schlumberger. The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Schlumberger regarding the accuracy or completeness of the information.

**Schlumberger****MATERIAL SAFETY DATA SHEET**

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

PRODUCT CODE:

D132

Effective Date:

19-December-2001

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Identification of the substance or preparation:

**CEMENT EXTENDER D132**

Company/undertaking identification:

Schlumberger

110 Schlumberger Drive

Sugar Land, Texas 77478, USA

Corporate Emergency Phone:

USA 1-281-595-3518

Corporate Non-Emergency Phone:

USA 1-281-285-7873

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

FLY ASH; CAS 68131-74-8; 60 - 100%

**3. HAZARDS IDENTIFICATION**

Emergency Overview

Form:

Powder

Color:

Tan to gray

Odor:

None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

Dust

Main Health Hazards:

HMIS RATING: Health 1 Flammability 0 Reactivity 0

This product may contain small amounts of respirable crystalline silica. Inhalation of silica dust may cause lung cancer. Silica dust may cause silicosis. May cause eye irritation. May cause respiratory tract irritation. May be mildly irritating to skin.

See Section 11 for a complete discussion of health hazards.

**4. FIRST AID MEASURES**

Eye contact:

Flush eyes with water for 5 minutes. Get medical attention if irritation occurs.

Skin contact:

Wash with water and soap.

Inhalation:

Remove to fresh air. Seek medical attention if irritation persists or you feel unwell.

Swallowing:

If several grams are swallowed, give 2 glasses of milk (preferred) or water and seek medical advice.

Notes:

None.

**5. FIRE FIGHTING MEASURES**

Extinguishing media:

None needed

Further Information:

None known.

---

PRODUCT CODE: D132 Effective Date: 19-December-2001

Flash point: Not combustible.  
Method: Not applicable  
Flammability (explosion limits in air):  
Lower: Not applicable Upper: Not applicable  
Autoflammability (auto-ignition temperature): Not applicable  
Explosive properties (thermal decomposition temperature): Not determined  
NFPA Rating: Health 1 Flammability 0 Reactivity 0 Other: None  
Combustion products: see Section 10.

#### **6. ACCIDENTAL RELEASE MEASURES**

After spillage/leakage: Vacuum up. Avoid generating dust.  
See Section 8 for protective equipment information.  
See Section 13 for disposal information.

#### **7. HANDLING AND STORAGE**

Special Precautions: Keep material dry.  
Packaging requirements: Paper bag (minimum 3 ply), or other industrial container designed for powders and granulated materials.  
Ventilation: Provide ventilation to keep airborne concentrations below exposure limits.

#### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory protection: Use NIOSH approved respirator with dust and mist protection (3M 8210). If dust concentration exceeds 5 times the exposure limit, wear an approved HEPA respirator.  
Eye protection: Chemical splash goggles.  
Hand protection: Impervious gloves made of: Rubber  
Skin protection: Clean, body-covering clothing.

Exposure Limit Guidelines (mg/m3)  
No components have established exposure limits.  
Dust particles: total = 10 mg/m3, respirable fraction = 5 mg/m3.

#### **9. PHYSICAL AND CHEMICAL PROPERTIES**

Form: Powder  
Color: Tan to gray  
Odor: None  
pH value: 11.2  
Boiling point: Not applicable  
Pour point: Not determined  
Vapor pressure: Not applicable  
Relative density (specific gravity): 2.2-2.6 (68°F)  
Bulk Density (solids): 1280 kg/m3  
Solubility in water: Not determined  
Viscosity: Not applicable

---

PRODUCT CODE: D132 Effective Date: 19-December-2001

Relative Vapor Density (air=1): Not applicable  
% Volatile: Not applicable  
Nature: Inert

#### **10. STABILITY AND REACTIVITY**

Stability: Stable.  
Conditions to avoid: None.  
Materials to avoid: Acids  
Hazardous Polymerization: Will not occur.  
Dust explosion hazard (solids): No.  
Special hazards: None.  
Hazardous decomposition products: None.

#### **11. TOXICOLOGICAL INFORMATION**

Eye contact: Irritant. May cause pain, redness, discomfort.  
Skin contact: May be mildly irritating.  
Inhalation: Repeated exposure to silica dust may cause silicosis.  
Irritant; may cause pain and coughing.  
Ingestion: No effect expected. Swallowing large amounts may cause illness.  
Cardinogenicity: This product may contain small amounts of respirable crystalline silica. Inhalation of silica dust may cause lung cancer.  
Mutagenicity: Not known to cause heritable genetic damage.  
Teratogenicity: Not known to cause birth defects.  
Target organs which may be affected: Lung  
Sensitization: Not known to cause allergic reaction.  
Other: None.

#### **12. ECOLOGICAL INFORMATION**

Information on product as a whole:  
Main environmental hazards: None known.  
Degradability: Not applicable

#### **13. DISPOSAL CONSIDERATIONS**

Product: Hazardous waste landfill. Material may be acceptable in some sanitary landfills; check local regulations.  
Container: Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations.  
USA EPA RCRA: None.

#### **14. TRANSPORT INFORMATION**

ICC Tariff Classification: Compound, Gas or Oil Well Drilling  
ICC Item Number: 138640 ICC Class: 50 LTL 35 TL  
CERCLA RQ: Not established.

---

PRODUCT CODE: **D132** Effective Date: 19-December-2001

Department of Transportation (DOT)

Designation: Not Regulated  
Hazard Class: Not Regulated  
Shipping Name: Not Regulated  
DOT Label:

Canadian Shipments

Shipping Name: Not Regulated

Label:

Classification:

Package Group:

PIN: none

#### **15. REGULATORY INFORMATION**

Notification/restrictions status:

USA:

All components of this material are on the USA TSCA inventory, or the components are exempt from inventory reporting.

CANADA:

All components of this material are on the Canada DSL, or the components are exempt from inventory reporting.

This product contains no chemicals subject to the USEPA reporting requirements of SARA 313.

The USEPA CERCLA Reportable Quantity (RQ) for this product as a whole is: Not established.

Canadian WHMIS classification: D2B

#### **16. OTHER INFORMATION**

Sections affected by last revision:

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

\*Mark of Schlumberger. The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Schlumberger regarding the accuracy or completeness of the information.

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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

AUG 26 2003  
Environmental Bureau  
Oil Conservation Division

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                  | 4. Generator ESP, Inc.                           |
| 2. Management Facility Destination: Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5. Originating Site 2612 SCR 1206<br>Midland, TX |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6. Transporter Petroplex Pipe                    |
| 7. Location of Material (Street Address or ULSTR) 2802 WCR 111, Midland, Tx                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8. State Texas                                   |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                  |

BRIEF DESCRIPTION OF MATERIAL:

RE: 08-20-03

Filter sand from wash out submergible pumps.

Enclosed is a certificate of waste status, copy of pervious C-138, and copy of analytical. The process has not changed.

Estimated Volume 48 yards Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_

SIGNATURE Kim Flowers  
Waste Management Facility Authorized Agent

TITLE: Rep DATE: 08-20-03

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

(This space for State Use)

APPROVED BY: [Signature]

TITLE: Enviro Engr

DATE: 8/22/03

APPROVED BY: [Signature]

TITLE: Environmental Geologist

DATE: 8/26/03

1-509280



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  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-13  
Revised March 17, 1990

Submit Origin  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4. Generator ESP, Inc.          |
| Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5. Originating Site Midland, TX |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6. Transporter Petroplex Pipe   |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8. State New Mexico             |
| 7. Location of Material (Street Address or ULSTR) 17 Kevin Rd., Midland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Texas                           |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator, one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                 |

BRIEF DESCRIPTION OF MATERIAL:

08-28-01B

Filter sand from wash out submergible pumps.

Ran Volatiles  
last time  
Non Detected in 2000

mjk

Enclosed is a certificate of waste status, copy of previous C-138, copy of previous analytical and process of knowledge letter. The process has not changed.

Estimated Volume 48 yards cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Carmella Van Maanen TITLE: Bookkeeper DATE: 8-28-01  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

**CERTIFICATE OF WASTE STATUS**  
**NON-EXEMPT WASTE MATERIAL**  
**"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR ESP, Inc.ADDRESS 2612 SCR 1206 Midland, Tx. 79706GENERATING SITE Same as aboveCOUNTY Midland STATE TexasTYPE OF WASTE Washout SandESTIMATED VOLUME 48 cubic yardsGENERATING PROCESS Washing of pumps; process has not changed.

REMARKS \_\_\_\_\_

NMOCD FACILITY Control Recovery, Inc. Hobbs, NM.TRUCKING COMPANY Petroplex Pipe & Construction, Inc.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT 

SIGNATURE

NAME Greg Akins

PRINTED

ADDRESS 2802 WCR 111Midland, Tx. 79706DATE August 20, 2003

## ANALYTICAL REPORT

### Prepared for:

Greg Akins  
Petroplex Pipe & Construction  
P.O. Box 5412  
Midland, TX 79704

Project: ESP

PO#:

Order#: G0307222

Report Date: 08/19/2003

### Certificates

US EPA Laboratory Code TX00158

---

**ENVIRONMENTAL LAB OF TEXAS****SAMPLE WORK LIST**

Petroplex Pipe &amp; Construction

P.O. Box 5412

Midland, TX 79704

697-2133

Order#: G0307222

Project:

Project Name: ESP

Location: ESP Yard

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

| <u>Lab ID:</u>      | <u>Sample :</u> | <u>Matrix:</u> | <u>Date / Time</u><br><u>Collected</u> | <u>Date / Time</u><br><u>Received</u> | <u>Container</u> | <u>Preservative</u> |
|---------------------|-----------------|----------------|----------------------------------------|---------------------------------------|------------------|---------------------|
| 0307222-01          | 1 Composite     | SOIL           | 8/14/03<br>12:30                       | 8/14/03<br>14:28                      | 4 oz glass       | ice                 |
| <u>Lab Testing:</u> |                 | Rejected: No   | Temp: -1.0 C                           |                                       |                  |                     |
| 8015M               |                 |                |                                        |                                       |                  |                     |
| METALS RCRA 7 TCLP  |                 |                |                                        |                                       |                  |                     |
| RCI                 |                 |                |                                        |                                       |                  |                     |
| Mercury, TCLP       |                 |                |                                        |                                       |                  |                     |

---

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Greg Akins  
Petroplex Pipe & Construction  
P.O. Box 5412  
Midland, TX 79704

Order#: G0307222  
Project:  
Project Name: ESP  
Location: ESP Yard

Lab ID: 0307222-01  
Sample ID: 1 Composite

8015M

| Method       | Date            | Date            | Sample        | Dilution      | Analyst | Method |
|--------------|-----------------|-----------------|---------------|---------------|---------|--------|
| <u>Blank</u> | <u>Prepared</u> | <u>Analyzed</u> | <u>Amount</u> | <u>Factor</u> |         |        |
|              |                 | 8/15/03         | 1             | 1             | CK      | 8015M  |

| Parameter     | Result<br>mg/kg | RL   |
|---------------|-----------------|------|
| GRO, C6-C12   | <10.0           | 10.0 |
| DRO, >C12-C35 | 3,260           | 10.0 |
| TOTAL, C6-C35 | 3,260           | 10.0 |

| Surrogates         | % Recovered | QC Limits (%) |
|--------------------|-------------|---------------|
| 1-Chlorooctane     | 80%         | 70 130        |
| 1-Chlorooctadecane | 101%        | 70 130        |

Approval:

*Roland K. Tuttle* 8-20-03  
Roland K. Tuttle, Lab Director, QA Officer  
Celey D. Keene, Org. Tech. Director  
Jeanne McMurray, Inorg. Tech. Director  
Sandra Diezguibe, Lab Tech.  
Sara Molina, Lab Tech.

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Greg Akins  
Petroplex Pipe & Construction  
P.O. Box 5412  
Midland, TX 79704

Order#: G0307222  
Project:  
Project Name: ESP  
Location: ESP Yard

Lab ID: 0307222-01  
Sample ID: 1 Composite

### METALS RCRA 7 TCLP

| Parameter | Result | Units | Dilution<br>Factor | RL    | Method     | Date<br>Prepared | Date<br>Analyzed | Analyst |
|-----------|--------|-------|--------------------|-------|------------|------------------|------------------|---------|
| Arsenic   | 0.015  | mg/L  | 1                  | 0.008 | 1311/6010B | 08/14/2003       | 8/19/03          | SM      |
| Barium    | 0.434  | mg/L  | 1                  | 0.001 | 1311/6010B | 08/14/2003       | 8/19/03          | SM      |
| Cadmium   | 0.004  | mg/L  | 1                  | 0.001 | 1311/6010B | 08/14/2003       | 8/19/03          | SM      |
| Chromium  | 0.124  | mg/L  | 1                  | 0.002 | 1311/6010B | 08/14/2003       | 8/19/03          | SM      |
| Lead      | 4.23   | mg/L  | 1                  | 0.011 | 1311/6010B | 08/14/2003       | 8/19/03          | SM      |
| Selenium  | <0.004 | mg/L  | 1                  | 0.004 | 1311/6010B | 08/14/2003       | 8/19/03          | SM      |
| Silver    | <0.002 | mg/L  | 1                  | 0.002 | 1311/6010B | 08/14/2003       | 8/19/03          | SM      |

### Test Parameters

| Parameter     | Result  | Units | Dilution<br>Factor | RL     | Method    | Date<br>Prepared | Date<br>Analyzed | Analyst |
|---------------|---------|-------|--------------------|--------|-----------|------------------|------------------|---------|
| Mercury, TCLP | <0.0005 | mg/L  | 1                  | 0.0005 | 1311/7470 | 08/14/2003       | 8/18/03          | SM      |

Approval:

Raland K. Tuttle, Lab Director, QA Officer  
Celey D. Keene, Org. Tech. Director  
Jeanne McMurry, Inorg. Tech. Director  
Sandra Biezughe, Lab Tech.  
Sara Molina, Lab Tech.

Date

8-20-03

N/A = Not Applicable

RL = Reporting Limit

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

## ENVIRONMENTAL LAB OF TEXAS

### ANALYTICAL REPORT

Greg Akins  
Petroplex Pipe & Construction  
P.O. Box 5412  
Midland, TX 79704

Order#: G0307222  
Project:  
Project Name: ESP  
Location: ESP Yard

Lab ID: 0307222-01  
Sample ID: 1 Composite

#### RCI

| Parameter        | Result | Units    | Dilution<br>Factor | RL   | Method     | Date<br>Analyzed | Analyst |
|------------------|--------|----------|--------------------|------|------------|------------------|---------|
| Ignitability     | >100   | C        | 1                  | NA   | 1010       | 8/15/03          | SM      |
| pH               | 11.39  | pH Units | 1                  | N/A  | 9045C      | 8/14/03          | TAL     |
| Reactive Cyanide | <0.09  | mg/kg    | 1                  | 0.09 | SW846 CH.7 | 8/18/03          | SB      |
| Reactive Sulfide | <5.00  | mg/kg    | 1                  | 5.00 | SW846 CH.7 | 8/18/03          | SB      |

Approval:

*Raland K. Tuttle* 8-20-03  
Raland K. Tuttle, Lab Director, QA Officer  
Coley D. Keene, Org. Tech. Director  
Jeanne McMurrey, Inorg. Tech. Director  
Sandra Biezugbe, Lab Tech.  
Sara Molina, Lab Tech.

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****8015M****Order#: G0307222**

|                     |      |            |                     |                    |                   |                     |       |
|---------------------|------|------------|---------------------|--------------------|-------------------|---------------------|-------|
| <b>BLANK</b>        | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD   |
| TOTAL, C6-C35-mg/kg |      | 0006539-02 |                     |                    | <10.0             |                     |       |
| <b>CONTROL</b>      | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD   |
| TOTAL, C6-C35-mg/kg |      | 0006539-03 |                     | 952                | 773               | 81.2%               |       |
| <b>CONTROL DUP</b>  | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD   |
| TOTAL, C6-C35-mg/kg |      | 0006539-04 |                     | 952                | 869               | 91.3%               | 11.7% |
| <b>SRM</b>          | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD   |
| TOTAL, C6-C35-mg/kg |      | 0006539-05 |                     | 1000               | 936               | 93.6%               |       |



**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****METALS RCRA 7 TCLP**

Order#: G0307222

| <b>BLANK</b>       | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
|--------------------|------|------------|------------------|-----------------|----------------|------------------|------|
| Arsenic-mg/L       |      | 0006540-02 |                  |                 | <0.008         |                  |      |
| Barium-mg/L        |      | 0006540-02 |                  |                 | <0.001         |                  |      |
| Cadmium-mg/L       |      | 0006540-02 |                  |                 | <0.001         |                  |      |
| Chromium-mg/L      |      | 0006540-02 |                  |                 | <0.002         |                  |      |
| Lead-mg/L          |      | 0006540-02 |                  |                 | <0.011         |                  |      |
| Selenium-mg/L      |      | 0006540-02 |                  |                 | <0.004         |                  |      |
| Silver-mg/L        |      | 0006540-02 |                  |                 | <0.002         |                  |      |
| <b>CONTROL</b>     | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |      | 0006540-03 |                  | 0.8             | 0.886          | 110.7%           |      |
| Barium-mg/L        |      | 0006540-03 |                  | 0.2             | 0.177          | 88.5%            |      |
| Cadmium-mg/L       |      | 0006540-03 |                  | 0.2             | 0.199          | 99.5%            |      |
| Chromium-mg/L      |      | 0006540-03 |                  | 0.2             | 0.192          | 96%              |      |
| Lead-mg/L          |      | 0006540-03 |                  | 1               | 0.990          | 99%              |      |
| Selenium-mg/L      |      | 0006540-03 |                  | 0.4             | 0.452          | 113%             |      |
| Silver-mg/L        |      | 0006540-03 |                  | 0.1             | 0.088          | 88%              |      |
| <b>CONTROL DUP</b> | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |      | 0006540-04 |                  | 0.8             | 0.859          | 107.4%           | 3.1% |
| Barium-mg/L        |      | 0006540-04 |                  | 0.2             | 0.175          | 87.5%            | 1.1% |
| Cadmium-mg/L       |      | 0006540-04 |                  | 0.2             | 0.203          | 101.5%           | 2%   |
| Chromium-mg/L      |      | 0006540-04 |                  | 0.2             | 0.180          | 90%              | 6.5% |
| Lead-mg/L          |      | 0006540-04 |                  | 1               | 1.01           | 101%             | 2%   |
| Selenium-mg/L      |      | 0006540-04 |                  | 0.4             | 0.413          | 103.3%           | 9%   |
| Silver-mg/L        |      | 0006540-04 |                  | 0.1             | 0.090          | 90%              | 2.2% |
| <b>SRM</b>         | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |      | 0006540-05 |                  | 1               | 1.05           | 105%             |      |
| Barium-mg/L        |      | 0006540-05 |                  | 1               | 0.984          | 98.4%            |      |
| Cadmium-mg/L       |      | 0006540-05 |                  | 1               | 1.08           | 108%             |      |
| Chromium-mg/L      |      | 0006540-05 |                  | 1               | 1.02           | 102%             |      |
| Lead-mg/L          |      | 0006540-05 |                  | 1               | 1.09           | 109%             |      |
| Selenium-mg/L      |      | 0006540-05 |                  | 1               | 1.01           | 101%             |      |
| Silver-mg/L        |      | 0006540-05 |                  | 0.5             | 0.483          | 96.6%            |      |

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****RCI**

Order#: G0307222

| <b>BLANK</b>           | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
|------------------------|------|------------|------------------|-----------------|----------------|------------------|------|
| pH-pH Units            |      | 0006507-01 |                  |                 | 6.58           |                  |      |
| Reactive Cyanide-mg/kg |      | 0006531-01 |                  |                 | <0.09          |                  |      |
| Reactive Sulfide-mg/kg |      | 0006532-01 |                  |                 | <5.00          |                  |      |
| <b>CONTROL</b>         | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Reactive Cyanide-mg/kg |      | 0006531-02 |                  | 0.1             | 0.087          | 87.9%            |      |
| Reactive Sulfide-mg/kg |      | 0006532-02 |                  | 22.2            | 20.0           | 90.1%            |      |
| <b>CONTROL DUP</b>     | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Reactive Cyanide-mg/kg |      | 0006531-03 |                  | 0.1             | 0.090          | 90.9%            | 3.4% |
| Reactive Sulfide-mg/kg |      | 0006532-03 |                  | 22.2            | 19.7           | 88.7%            | 1.5% |
| <b>DUPLICATE</b>       | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Ignitability-C         |      | 0307222-01 | 0                |                 | >100           |                  | 0.0% |
| pH-pH Units            |      | 0307222-01 | 11.39            |                 | 11.34          |                  | 0.4% |
| Reactive Cyanide-mg/kg |      | 0307222-01 | 0                |                 | <0.09          |                  | 0.0% |
| Reactive Sulfide-mg/kg |      | 0307222-01 | 0                |                 | <5.00          |                  | 0.0% |
| <b>SRM</b>             | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| pH-pH Units            |      | 0006507-04 |                  | 12.45           | 12.69          | 101.9%           |      |
| Reactive Cyanide-mg/kg |      | 0006531-04 |                  | 1               | 1.08           | 108.9%           |      |
| Reactive Sulfide-mg/kg |      | 0006532-04 |                  | 680             | 640            | 94.1%            |      |

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****Test Parameters**

Order#: G0307222

|                    |      |            |                     |                    |                   |                     |      |
|--------------------|------|------------|---------------------|--------------------|-------------------|---------------------|------|
| <b>BLANK</b>       | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |      | 0006526-01 |                     |                    | <0.0005           |                     |      |
| <b>CONTROL</b>     | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |      | 0006526-02 |                     | 0.001              | 0.00102           | 102%                |      |
| <b>CONTROL DUP</b> | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |      | 0006526-03 |                     | 0.001              | 0.00096           | 96%                 | 6.1% |
| <b>SRM</b>         | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |      | 0006526-04 |                     | 0.001              | 0.00106           | 106%                |      |

**12600 West 1-20 East  
Odessa, Texas 79765**

**CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**

Project Manager: **GREG AKINS**

Company Name Petplex P.P.

Company Address: Po Box 5412

City/State/Zip: MIDLAND TX

Telephone No: 432-697-4540

Sampler Signature: 

Fax No: 697-2133

**Sampler Signatura:**

[illegible]

Aug 20 03 08:53a

petropolis pipe

Aug 20 03 02:47p

915 6972133

21. d

01 - d

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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

SEP 08 2003

OIL CONSERVATION  
DIVISION

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                               | 4. Generator Schlumberger                                       |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5. Originating Site 10 miles West of Seminole<br>Gaines, County |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6. Transporter Key Energy                                       |
| 7. Location of Material (Street Address or ULSTR) 10 miles West of Seminole,<br>Gaines, County                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8. State Texas                                                  |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator;<br>one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the<br>material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be<br>approved<br><br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                                 |

BRIEF DESCRIPTION OF MATERIAL:

RE: 08-28-03

Generating process spill. 10-30% Amine surfactant solution and soil.

Enclosed is a certificate of waste status and MSDS sheets.



Estimated Volume 2 yards Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers  
Waste Management Facility Authorized Agent

TITLE: Rep DATE: 08-28-03

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

(This space for State Use)

APPROVED BY: [Signature]

TITLE: Enviro Engr

DATE: 8/29/03

APPROVED BY: [Signature]

TITLE: Environmental Geologist

DATE: 9/9/03

070903-2

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Schlumberger

ADDRESS 1105 W Bender

GENERATING SITE 10 miles west of Seminole

COUNTY Gallus STATE TX

TYPE OF WASTE 10-30% amine surfactant solution & soil

ESTIMATED VOLUME 2 yards

GENERATING PROCESS spill

REMARKS \_\_\_\_\_

NMOCD FACILITY CMZ

TRUCKING COMPANY Tru Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Darwin Thompson  
SIGNATURE

NAME Darwin Thompson  
PRINTED

ADDRESS 1105 W. Bender

Hobbs, NM 88240

DATE 8-27-03

# Schlumberger

507 E. RICHEY  
P.O. BOX 300  
ARTESIA N.M. 88210  
Phone: 505-748-1392/HOBBS DISPATCH 505-748-1391  
Fax: 505-748-2133

## Fax

To: David, Kim, Ken From: Darwin Thompson  
Fax: \_\_\_\_\_ Date: \_\_\_\_\_

Phone: \_\_\_\_\_ Pages: 6  
Re: \_\_\_\_\_ CC: \_\_\_\_\_

☐ Urgent ☒ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Comments: \_\_\_\_\_  
Please replace the MSDS ~~sent~~ for F108  
with this MSDS for F103. We were  
mistaken about which chemical we spilled.  
Thanks.  
HT

**Schlumberger**

**MATERIAL SAFETY DATA SHEET**

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

PRODUCT CODE: **F103** Effective Date: **19-December-2001**

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Identification of the substance or preparation:

**EZEFLOR F103 Surfactant**

Company/undertaking identification:

Schlumberger  
110 Schlumberger Drive  
Sugar Land, Texas 77478, USA

Corporate Emergency Phone:

USA 1-281-595-3518

Corporate Non-Emergency Phone:

USA 1-281-285-7873

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

PROPRIETARY MIXTURE CONTAINING:

OXYALKYLATED ALKYLALCOHOL; 15-25%

OXYALKYLATED ALKYLALCOHOL; 8-15%

PROPAN-2-OL; CAS 67-63-0; 15-25%

2-BUTOXYETHANOL; CAS 111-76-2; 17-25%

1-UNDECANOL; CAS 112-42-5; 1 - 5%

**3. HAZARDS IDENTIFICATION**

Emergency Overview

Form:

Liquid

Color:

Clear colorless

Odor:

Alcohol

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

Flammable liquid

Main Health Hazards:

HMIS RATING: Health 2 Flammability 3 Reactivity 0

Harmful if inhaled. Harmful if absorbed through the skin. Harmful if swallowed. May cause eye irritation. May cause respiratory tract irritation. May cause skin irritation. May cause headache, narcosis. May cause nausea.

See Section 11 for a complete discussion of health hazards.

**4. FIRST AID MEASURES**

Eye contact:

Immediately flush eyes with water for 15 minutes while holding eyelids open. Seek medical attention.

Skin contact:

Remove contaminated clothes and shoes. Wash thoroughly with soap and water. Seek medical attention if irritation occurs.

Inhalation:

Remove to fresh air. Seek medical attention if irritation persists or you feel unwell.



PRODUCT CODE: F103 Effective Date: 19-December-2001

Swallowing: If several grams are swallowed, induce vomiting with ipecac (preferred), or by giving water and sticking finger down throat. After vomiting give milk (preferred) or water and consult physician.

Notes: None.

#### **5. FIRE FIGHTING MEASURES**

Extinguishing media: Water Fog, Alcohol Foam, CO2, Dry Chemical

Further Information: Vapors may travel along the ground and ignite when an ignition source is contacted. Avoid breathing vapors. Use SCBA in closed areas.

Flash point: 90°F

Method: Pensky-Martens CC

Flammability (explosion limits in air):

|                                                           |                |        |                |
|-----------------------------------------------------------|----------------|--------|----------------|
| Lower:                                                    | Not determined | Upper: | Not determined |
| Autoflammability (auto-ignition temperature):             |                |        | Not determined |
| Explosive properties (thermal decomposition temperature): |                |        | Not determined |

NFPA Rating: Health 2 Flammability 3 Reactivity 0 Other: None

Combustion products: see Section 10.

#### **6. ACCIDENTAL RELEASE MEASURES**

After spillage/leakage: Contain with dikes. Use explosion proof equipment to recover. Remove all sources of ignition. Soak up residual on inert absorbant (sand). Put in steel or plastic drum approved for flammables.

See Section 8 for protective equipment information.

See Section 13 for disposal information.

#### **7. HANDLING AND STORAGE**

Special Precautions: Keep away from heat, sparks, and flame. Store out of direct sunlight in well ventilated area. Keep container closed when not in use. Use with adequate ventilation. Do not cut or weld on container.

Packaging requirements: Coated (epoxy phenolic) steel drum (DOT 17E) or high density polyethylene (HDPE) can.

Ventilation: Provide ventilation to keep airborne concentrations below exposure limits.

#### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory protection: Use NIOSH approved respirator with organic vapor protection (color coded black or yellow). Use SCBA (self contained breathing apparatus) in confined areas.

Eye protection: Chemical splash goggles. For spills and emergencies, also wear face shield.

Hand protection: Impervious gloves made of: Viton

Skin protection: Chemical resistant boots. Chemical resistant apron.

Exposure Limit Guidelines (mg/m3)

Components having no established limits are not listed.

PRODUCT CODE: F103 Effective Date: 19-December-2001

(NE: Not established, ND: Not determined)

These numbers may be referred to as OEL, MAC, MAK, MEL, OES, REL, PEL, or TLV.

TWA is the 8 hour time weighted average. STEL is the short term exposure limit.

"C" indicates the value is a maximum concentration (ceiling).

|            | PROPAN-2-OL |      |     | 2-BUTOXYETHANOL |      |     |
|------------|-------------|------|-----|-----------------|------|-----|
|            | TWA         | STEL | ANM | TWA             | STEL | ANM |
| CANADA     | NE          | NE   |     | NE              | NE   |     |
| USA: ACGIH | 985         | 1230 |     | 96              | NE   |     |
| USA: OSHA  | 980         | 1225 |     | 120             | NE   |     |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                      |                      |
|--------------------------------------|----------------------|
| Form:                                | Liquid               |
| Color:                               | Clear colorless      |
| Odor:                                | Alcohol              |
| pH value:                            | 5 (68°F) (at 10 g/l) |
| Boiling point:                       | 190°F                |
| Pour point:                          | -40°F                |
| Vapor pressure:                      | 3.4 kPa (77°F)       |
| Relative density (specific gravity): | 0.937 (77°F)         |
| Bulk Density (solids):               | Not applicable       |
| Solubility in water:                 | Soluble 88°F         |
| Viscosity:                           | Not determined       |
| Relative Vapor Density (air=1):      | > 1                  |
| % Volatile:                          | 71                   |
| Nature                               | Surfactant           |

## 10. STABILITY AND REACTIVITY

|                                   |                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------|
| Stability:                        | Stable.                                                                                           |
| Conditions to avoid:              | None.                                                                                             |
| Materials to avoid:               | Bases Oxidizers                                                                                   |
| Hazardous Polymerization:         | Will not occur.                                                                                   |
| Dust explosion hazard (solids):   | Not applicable.                                                                                   |
| Special hazards:                  | None.                                                                                             |
| Hazardous decomposition products: | When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released. |

## 11. TOXICOLOGICAL INFORMATION

|                  |                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------|
| Eye contact:     | Irritant. May cause pain, redness, discomfort.                                                          |
| Skin contact:    | Harmful if absorbed through the skin; may cause illness. Irritant; may cause pain, redness, dermatitis. |
| Inhalation:      | Harmful if inhaled; may cause illness. Irritant; may cause pain and coughing.                           |
| Ingestion:       | Harmful if swallowed; large amounts may cause illness.                                                  |
| Carcinogenicity: | Not listed by IARC, USA NTP, or USA OSHA.                                                               |
| Mutagenicity:    | Not known to cause heritable genetic damage.                                                            |

---

PRODUCT CODE: F103 Effective Date: 19-December-2001

Teratogenicity: Not known to cause birth defects.

Target organs which may be affected: Blood, Kidney, Liver, Nerve, Reproductive

Sensitization: Not known to cause allergic reaction.

Other: Can cause headache, narcosis. May cause nausea.

#### 12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards: None known.

Information on components:

CHEMICAL NAME: PROPAN-2-OL

Invertebrate Tox: LC50=(96hr) 1150 mg/l

LC50=(48hr) 1400 mg/l Species: Brown shrimp (Crangon crangon)

Fish Tox - Fresh Water: LC50=(7d) 7060 mg/l Species: Poecilia reticulata

CHEMICAL NAME: 2-BUTOXYETHANOL

Invertebrate Tox: LC50=(96hr) 860 mg/l

Fish Tox - Fresh Water: LC50=(24hr) 2700 mg/l Species: Carassius auratus (goldfish)

Growth Inhibition Algae: EC50=(96hr) 720 mg/l Species: Selenastrium

#### 13. DISPOSAL CONSIDERATIONS

Product: Ship via permitted waste hauler to permitted hazardous waste disposal facility for incineration (preferred) or disposal well injection of all liquids and landfilling of solids.

Container: Sell drum to an approved drum reconditioner or triple rinse, crush, and ship to sanitary landfill unless prohibited by local regulations.

USA EPA RCRA: D001

#### 14. TRANSPORT INFORMATION

ICC Tariff Classification Compound, Gas or Oil Well Drilling

ICC Item Number: 138640 ICC Class: 50 LTL 35 TL

CERCLA RQ: Not determined.

Department of Transportation (DOT)

Designation: Hazardous Material

Hazard Class: 3

Shipping Name: Flammable liquid, n.o.s. (contains isopropanol), 3, UN 1993, PG III

DOT Label: Flammable Liquid 3

#### Canadian Shipments

Shipping Name: Flammable liquid, n.o.s. (contains isopropanol)

Label: Flammable Liquid 3

Classification: 3 Package Group: III PIN: UN 1993

PRODUCT CODE: F103 Effective Date: 19-December-2001

**15. REGULATORY INFORMATION**

Notification/restrictions status:

USA:

All components of this material are on the USA TSCA inventory, or the components are exempt from inventory reporting.

CANADA:

All components of this material are on the Canada DSL, or the components are exempt from inventory reporting.

This product contains no chemicals subject to the USEPA reporting requirements of SARA 313.  
The USEPA CERCLA Reportable Quantity (RQ) for this product as a whole is: Not determined.  
Canadian WHMIS classification: B2 ,D2B

Note regarding A026 shipping name in the USA:

**16. OTHER INFORMATION**

Sections affected by last revision:

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

\*Mark of Schlumberger. The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Schlumberger regarding the accuracy or completeness of the information.

**RECEIVED**

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

State of New Mexico  
Energy Minerals and Natural Resources SEP 08 2003

Form C-138  
Revised June 10, 2003

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

**OIL CONSERVATION  
DIVISION**

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Weatherford, Inc.                        |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site 3310 NW Loop 338<br>Odessa, Texas |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter Total Jetting                          |
| 7. Location of Material (Street Address or ULSTR) 3310 NW Loop 338, Odessa, TX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8. State Texas                                        |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                       |

BRIEF DESCRIPTION OF MATERIAL:

RE: 08-27-03

Pipe scale.

Enclosed is a certificate of waste status, chain of custody, and copy of analytical. This waste stream has been approved in the past.

Estimated Volume 25 yards Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 08-27-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079E-MAIL ADDRESS david@carihobbs.com

030903-1

(This space for State Use)

APPROVED BY: Jim Johnson TITLE: Enviro Engr DATE: 9-3-03  
APPROVED BY: Monty J. Giff TITLE: Environmental Geologist DATE: 9-9-03

Aug 27 09 00:25a

C R I

6062923615

p. 2

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR WEATHERSFORD, INCADDRESS 3310 NW LOOP 338 ODESSA TX 79764GENERATING SITE 3310 NW LOOP 338 ODESSACOUNTY ECTOR STATE TXTYPE OF WASTE PIPE SCALEESTIMATED VOLUME APPROX. 25 CUBIC YARDSGENERATING PROCESS PIPE INSPECTION AND  
RE-CONDITIONINGREMARKS ANALYTICAL RESULTS PREVIOUSLY SUBMITTED.NMOCD FACILITY CONTROLLED RECOVERY INCTRUCKING COMPANY TOTAL JETTING, INC

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Bo Vizcaino

SIGNATURE

NAME BO VIZCAINO

PRINTED

ADDRESS 9 E INDUSTRIAL LOOPMIDLAND, TX 79701DATE 27 Aug 03

Aug 26 03 04:44p

p. 15

## Environmental Lab of Texas I, Ltd.

12600 West-20 East  
Odessa, Texas 79763Phone: 915-563-1800  
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

BO VIZCAINO

Project Name:

WEATHERFORD

Company Name:

LLANO - PERMIAN ENVIRONMENTAL

Project #:

WEA-00

Company Address:

9 E. INDUSTRIAL LOOP

Project Loc:

Odessa, TX

City/State/Zip:

LLANO, TX

PO #:

Telephone No.:

432-522-2133

Fax No.:

432-522-2180

Sampler Signature:

Bo Vizcaino

3420001

0307253

FIELD CODE

PIE SCALE

Date Sampled

Time Sampled

No. of Containers 4oz glass

Ice

HNO<sub>3</sub>

HCl

NaOH

H<sub>2</sub>SO<sub>4</sub>

None

Other (Specify)

Water

Sludge

Soil

Other (specify): PIPESCALE

TPH: 418.1 1016M 1005 1005

Cations (Ca, Mg, Na, K)

Anions (Cl, RO<sub>2</sub>, CO<sub>3</sub>, HCO<sub>3</sub>)

SAR / ESP / CFC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semi-volatiles

BTEX BC21N/8030

ACI

NORM

TD8/T88

RUSH TAT (Pre-Schedule)

Standard TAT

Special Instructions

Requested by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Drop off Box

Aug 28 03 04:40p

P. 1

## ANALYTICAL REPORT

### Prepared for:

BO VIZCAINO  
LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701

Project: Weatherford , ODESSA

PO#:

Order#: G0307253

Report Date: 08/26/2003

### Certificates

US EPA Laboratory Code TX00158



Aug 26 03 04:41p

p. 6

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

RO VIZCAINO  
LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701

Order#: G0307253  
Project: WEA-00  
Project Name: Weatherford  
Location: Odessa, Tx.

Lab ID: 0307253-01

Sample ID: Pipe Scale

**RCI**

| Parameter        | Result | Units    | Dilution Factor | RL   | Method     | Date Analyzed | Analyst |
|------------------|--------|----------|-----------------|------|------------|---------------|---------|
| pH               | 7.46   | pH Units | 1               | N/A  | 9045C      | 8/20/03       | TAL     |
| Reactive Cyanide | <0.09  | mg/kg    | 1               | 0.09 | SW846 CH.7 | 8/20/03       | SB      |
| Reactive Sulfide | 19.9   | mg/kg    | 1               | 5.00 | SW846 CH.7 | 8/20/03       | SB      |

**Test Parameters**

| Parameter      | Result | Units | Dilution Factor | RL  | Method | Date Analyzed | Analyst |
|----------------|--------|-------|-----------------|-----|--------|---------------|---------|
| Ignitability   | >100.0 | C     | 1               | N/A | 1010   | 8/21/03       | SB      |
| TPH 418.1 FTIR | 118000 | mg/kg | 10              | 100 | 418.1  | 8/22/03       | SB      |

TPH  $\Rightarrow$  118,000 ppm

Approval:

*Alfred Keene* 08/26/03  
Randall K. Tuttle, Lab Director, QA Officer  
Coley D. Keene, Org. Tech. Director  
Jeanne McMurry, Inorg. Tech. Director  
Sandra Blazughe, Lab Tech.  
Sara Molina, Lab Tech.

Date

Aug 26 03 04:41p

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

RO VIZCAINO  
LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701

Order#: G0307253  
Project: WFA-00  
Project Name: Weatherford  
Location: Odessa, Tx.

Lab ID: 0307253-01  
Sample ID: Pipe Scale

### METALS RCRA 7 TCLP

| Parameter | Result | Units | Dilution Factor | RL    | Method     | Date Prepared | Date Analyzed | Analyst |
|-----------|--------|-------|-----------------|-------|------------|---------------|---------------|---------|
| Arsenic   | <0.008 | mg/L  | 1               | 0.008 | 1311/6010B | 08/20/2003    | 8/22/03       | SM      |
| Barium    | 0.240  | mg/L  | 1               | 0.001 | 1311/6010H | 08/20/2003    | 8/22/03       | SM      |
| Cadmium   | 0.002  | mg/L  | 1               | 0.001 | 1311/6010B | 08/20/2003    | 8/22/03       | SM      |
| Chromium  | 0.008  | mg/L  | 1               | 0.002 | 1311/6010B | 08/20/2003    | 8/22/03       | SM      |
| Lead      | 0.021  | mg/L  | 1               | 0.011 | 1311/6010B | 08/20/2003    | 8/22/03       | SM      |
| Selenium  | 0.015  | mg/L  | 1               | 0.004 | 1311/6010H | 08/20/2003    | 8/22/03       | SM      |
| Silver    | <0.002 | mg/L  | 1               | 0.002 | 1311/6010B | 08/20/2003    | 8/22/03       | SM      |

### Test Parameters

| Parameter     | Result  | Units | Dilution Factor | RL     | Method    | Date Prepared | Date Analyzed | Analyst |
|---------------|---------|-------|-----------------|--------|-----------|---------------|---------------|---------|
| Mercury, TCLP | <0.0005 | mg/L  | 1               | 0.0005 | 1311/7470 | 08/20/2003    | 8/22/03       | SM      |

Approval:   
 Roland K. Tuttle, Lab Director, QA Officer  
 Celcy D. Keene, Org. Tech. Director  
 Jeanne McMurrey, Inorg. Tech. Director  
 Sandra Diezguibe, Lab Tech.  
 Sara Molina, Lab Tech.

Date

N/A = Not Applicable RL = Reporting Limit

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS, LTD.

12600 West I-20 East, Odessa, TX 79763 Ph: 915-563-1800

Aug 26 03 04:41p

p. 4

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

BO VIZCAINO  
LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701

Order#: G0307253  
Project: WEA-00  
Project Name: Weatherford  
Location: Odessa, Tx.

Lab ID: 0307253-01  
Sample ID: Pipe Scale

### 8270C Semivolatile Organics - TCLP

| Method<br>Blank | Date<br>Prepared | Date<br>Analyzed | Sample<br>Amount | Dilution<br>Factor | Analyst | Method     |
|-----------------|------------------|------------------|------------------|--------------------|---------|------------|
| 0006621-02      | 8/20/03          | 8/21/03<br>10:23 | 1                | 1                  | CK      | 1311/8270C |

| Parameter             | Result<br>µg/L | RL   |
|-----------------------|----------------|------|
| Pyridine              | <5.00          | 5.00 |
| 1,4-Dichlorobenzene   | <5.00          | 5.00 |
| 2-Methylphenol        | <5.00          | 5.00 |
| Hexachloroethane      | <5.00          | 5.00 |
| Nitrobenzene          | <5.00          | 5.00 |
| Hexachlorobutadiene   | <5.00          | 5.00 |
| 2,4,6-Trichlorophenol | <5.00          | 5.00 |
| 2,4,5-Trichlorophenol | <5.00          | 5.00 |
| 2,4-Dinitrotoluene    | <5.00          | 5.00 |
| Hexachlorobenzene     | <5.00          | 5.00 |
| Pentachlorophenol     | <5.00          | 5.00 |
| 4-Methylphenol        | <5.00          | 5.00 |

| Surrogates           | % Recovered | QC Limits (%) |     |
|----------------------|-------------|---------------|-----|
| 2-Fluorophenol       | 27%         | 21            | 110 |
| Phenol-d5            | 20%         | 10            | 110 |
| Nitrobenzene-d5      | 69%         | 23            | 120 |
| 2-Fluorobiphenyl     | 67%         | 30            | 116 |
| 2,4,6-Tribromophenol | 76%         | 10            | 123 |
| p-Terphenyl-d14      | 68%         | 18            | 137 |

Approval:

Roland K. Tuttle, Lab Director, QA Officer

Date

Celey D. Keene, Org. Tech. Director

Jeanne McMurrey, Inorg. Tech. Director

Sandra Biezugbe, Lab Tech.

Sara Molina, Lab Tech.

**ENVIRONMENTAL LAB OF TEXAS I, LTD.**

**12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800**

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

BO VIZCAINO  
LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701

Order#: G0307253  
Project: WFA-00  
Project Name: Weatherford  
Location: Odessa, Tx.

Lab ID: 0307253-01  
Sample ID: Pipe Scale

### 8260B TCLP

| Method<br>Blank | Date<br>Prepared | Date<br>Analyzed  | Sample<br>Amount | Dilution<br>Factor | Analyst | Method     |
|-----------------|------------------|-------------------|------------------|--------------------|---------|------------|
| 0006620-02      | 8/20/03          | 8/25/03<br>(7:21) | 5                | 1                  | CK      | 1311/8260B |

| Parameter            | Result<br>µg/L | RL   |
|----------------------|----------------|------|
| Carbon tetrachloride | <1.00          | 1.00 |
| Benzene              | <1.00          | 1.00 |
| 1,2-Dichloroethane   | <1.00          | 1.00 |
| Chlorobenzene        | <1.00          | 1.00 |
| 1,1-Dichloroethene   | <1.00          | 1.00 |
| 1,4-Dichlorobenzene  | <1.00          | 1.00 |
| 2-Butanone (MEK)     | <1.00          | 1.00 |
| Chloroform           | <1.00          | 1.00 |
| Tetrachloroethene    | <1.00          | 1.00 |
| Trichloroethene      | <1.00          | 1.00 |
| Vinyl chloride       | <1.00          | 1.00 |

| Surrogates            | % Recovered | QC Limits (%) |     |
|-----------------------|-------------|---------------|-----|
| Dibromofluoromethane  | 128%        | 63            | 144 |
| 1,2-dichloroethane-d4 | 120%        | 67            | 147 |
| Toluene-d8            | 117%        | 64            | 128 |
| 4-Bromofluorobenzene  | 123%        | 47            | 188 |

Aug 26 03 04:40p

P. 2

## ENVIRONMENTAL LAB OF TEXAS

### SAMPLE WORK LIST

LLANO-PERMIAN ENVIRONMENTAL  
#9 EAST INDUSTRIAL LOOP  
MIDLAND, TX 79701  
522-2180

Order#: G0307253  
Project: WEA-00  
Project Name: Weatherford  
Location: Odessa, Tx.

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

| <u>Lab ID:</u>                                 | <u>Sample :</u> | <u>Matrix:</u> | <u>Date / Time</u><br><u>Collected</u> | <u>Date / Time</u><br><u>Received</u> | <u>Container</u> | <u>Preservative</u> |
|------------------------------------------------|-----------------|----------------|----------------------------------------|---------------------------------------|------------------|---------------------|
| 0307253-01                                     | Pipe Scale      | SOIL           | 8/19/03<br>17:30                       | 8/20/03<br>8:00                       | See COC          | ice                 |
| <u>Lab Testing:</u>                            |                 | Rejected: No   | Temp: 4.5 C                            |                                       |                  |                     |
| 8260B TCLP                                     |                 |                |                                        |                                       |                  |                     |
| 8270C Semivolatile Organics - TCLP             |                 |                |                                        |                                       |                  |                     |
| METALS RCRA 7 TCLP                             |                 |                |                                        |                                       |                  |                     |
| Naturally Occuring-Radioactive Material pCi/gm |                 |                |                                        |                                       |                  |                     |
| RCI                                            |                 |                |                                        |                                       |                  |                     |
| Ignitability                                   |                 |                |                                        |                                       |                  |                     |
| Mercury, TCLP                                  |                 |                |                                        |                                       |                  |                     |
| TPH 418.1 FTIR                                 |                 |                |                                        |                                       |                  |                     |

FROM : LLANO PERMIAN ENVIRONMENTAL

FAX NO. : 915522180

Sep. 02 2003 03:29PM P2

Aug 26 03 04:43p

p.13

# ENVIRONMENTAL LAB OF I, LTD.

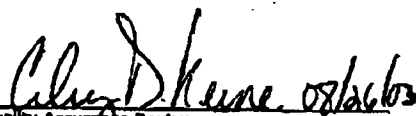
"Don't Treat Your Soil Like Dirt!"

LLANO PERMIAN ENVIRONMENTAL  
ATTN: BO VIZCAINO  
9 E. INDUSTRIAL LOOP  
MIDLAND, TEXAS 79701  
FAX: 432-522-2180

Sample Type: Scale/Soil  
Sample Condition: Intact/ 4.5 C/Plastic Bag  
ELT #: 0307253-01  
Project Name: Weatherford  
Project #: WEA-00  
Project Location: Odessa, Tx.

Sample Date: 08/19/03  
Sample Time: 1730  
Receiving Date: 08/20/03  
Analysis Date: 08/21/03  
Analysis Time: 1316  
Field Code: Pipe Scale

| Analysis Description | Analysis Results<br>pCi/gm | Analysis Error<br>+/- 2s | Analysis Results<br>Bq/gm | Analysis Error<br>+/- 2s | Analysis Test Method | Analysis Technician |
|----------------------|----------------------------|--------------------------|---------------------------|--------------------------|----------------------|---------------------|
| Ra-226               | <1.80                      | N/A                      | <0.07                     | N/A                      | EPA 901.1M           | MD                  |
| Ra-228               | <0.37                      | N/A                      | <0.01                     | N/A                      | EPA 901.1M           | MD                  |
| Pb-210               | <1.09                      | N/A                      | <0.04                     | N/A                      | EPA 901.1M           | MD                  |
| Total Activity       | BDL                        | N/A                      | BDL                       | N/A                      | EPA 901.1M           | MD                  |
| Notes:               |                            |                          |                           |                          |                      |                     |

  
Quality Assurance Review

Environmental Lab of Texas I, LTD. Assumes no liability for the use or interpretation of any analytical results other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

AUG 8 2003

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

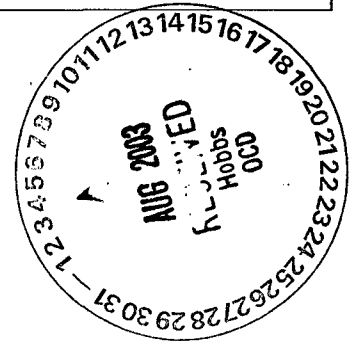
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                          | 4. Generator Navajo Refining            |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5. Originating Site 501 E Main, Artesia |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6. Transporter CRI                      |
| 7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8. State New Mexico                     |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                         |

### BRIEF DESCRIPTION OF MATERIAL:

RE: 08-01-03A

Salt/Diesel

Attached is Non-Exempt waste form and MSDS .



Estimated Volume 100 yards Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers TITLE: Clerical DATE: 08-01-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

080403-14

(This space for State Use)

APPROVED BY: DK Johnson TITLE: Enviro Engr DATE: 8-4-03  
APPROVED BY: Mark J. [Signature] TITLE: Environmental Geologist DATE: 8-4-03





## REFINING COMPANY, L.P.

**FAX**

(505) 746-5283 DIV. ORDERS  
(505) 746-5481 TRUCKING  
(505) 746-5468 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159  
TELEPHONE (505) 748-3311

**FAX**

(505) 746-5419 ACCOUNTING  
(505) 746-5451 EXEC/MKTG  
(505) 746-5421 ENGINEERING  
(505) 746-5480 PIPELINE

August 1, 2003

Ken Marsh  
CRI  
P.O. Box 388  
Hobbs, NM 88214

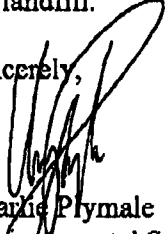
TELECOPIED

AUG 01 2003

Ken,

I would like to would like to profile into your facility by process of knowledge salt contaminated with diesel. This material came from our new D-127 salt filter which diesel flows through to eliminate any water that may remain in the diesel before it enters our holding tanks. The salt will have some diesel on it, with the majority of the diesel being washed out of the salt when the salt is water washed from the tower. This material will not have any free liquids when sent to your landfill.

Sincerely,

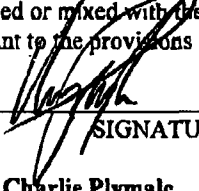
  
Charlie Prymale  
Environmental Specialist

*An Independent Refinery Serving . . .*  
**NEW MEXICO • ARIZONA • WEST TEXAS • NORTHERN MEXICO**

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining CompanyADDRESS: 501 East MainGENERATING SITE: Navajo Refining CompanyCOUNTY: EddySTATE: NMTYPE OF WASTE: Salt/DieselESTIMATED VOLUME: 100 yardsGENERATING PROCESS: Diesel flows through the salt filter to eliminate any  
Water that may remain in the diesel before the diesel goes into our storage tanks.REMARKS: MSDS for Diesel is enclosedNMOCD FACILITY: Controlled Recovery IncorporatedTRUCKING COMPANY: D and J waste

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT:   
SIGNATURENAME: Charlie Plymale  
PRINTEDADDRESS: 501 EAST MAINARTESIA, NM 88210DATE: 8/1/03

**NAVAJO REFINING COMPANY**

P. O. BOX 159

ARTESIA, NM 88211-0159

(505) 748-3311, (505) 365-8364, (505) 365-8365 (24 Hours)

**MATERIAL SAFETY DATA SHEET****EMERGENCY PHONE NUMBERS:**

CHEMTREC: 1-800-424-9300 (for fire, spill and emergency response information)

NEW MEXICO POISON INFORMATION CENTER: 1-800-432-6866 (for poisoning)

TEXAS (EL PASO) POISON INFORMATION CENTER: (915) 533-1244 (for poisoning)

ARIZONA POISON INFORMATION CENTER: 1-800-362-0101 or (602) 253-3334 (for poisoning)

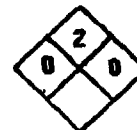
**LOW SULFUR DIESEL FUEL****SECTION 1 - PRODUCT IDENTIFICATION**

PRODUCT NAME: DIESEL FUEL

CAS NUMBER: 68476-34-6

FORMULA:  $C_{10}H_{22}$ - $C_{16}H_{34}$ 

CHEMICAL FAMILY: Petroleum hydrocarbon

SYNONYMS: Diesel Fuel #2, Petroleum Distillate, Diesel, #2 Fuel Oil  
NA 1993, On Road Diesel

NFPA 704 SYMBOL

**SECTION 2 - HAZARDOUS INGREDIENTS**

| HAZARDOUS COMPONENTS     | CAS NO.    | Vol% | TLV    | PEL (OSHA) |
|--------------------------|------------|------|--------|------------|
| DIESEL FUEL (containing) | 68476-34-6 | 100  | NA     | NA         |
| Naphthalene              | 91-20-3    | 1-3  | 10 ppm | 10 ppm     |

**OTHER INGREDIENT INFORMATION:**

Sulfur in the form of mercaptans or hydrogen sulfide may be present up to 0.05% by weight.

**SECTION 3 - PHYSICAL DATA**

BOILING POINT: 315-575°F

VAPOR PRESSURE: @100°F 25mm Hg

VAPOR DENSITY (AIR=1): N.A.

SOLUBILITY IN WATER: Insoluble

ODOR THRESHOLD: N.A.

APPEARANCE AND ODOR: Clear to yellow liquid. Oily, petroleum odor.

SPECIFIC GRAVITY (WATER=1): 0.7-0.8

% VOLATILE BY VOLUME: N.A.

EVAPORATION RATE: No data available

AUTOIGNITION TEMP: 490-546°F

**SECTION 4 - FIRE AND EXPLOSION HAZARD DATA**

CLASSIFICATION: CLASS II, COMBUSTIBLE LIQUID

FLASH POINT: 140°F (PMCC)

FLAMMABLE LIMITS: LEL = 0.7% UEL = 5.0%

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, Halon

SPECIAL FIRE FIGHTING PROCEDURES: Move container from fire area if possible. Use water to keep fire exposed containers cool. Use foam for spill control.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Evacuate a radius of 1500 feet for uncontrolled fires. Vapors are heavier than air and may travel great distances and flash back. Extinguish only if flow can be stopped.

NFPA FIRE = 2 (moderate)

PAGE 1.

DATE PREPARED: 10/12/93

## LOW SULFUR DIESEL FUEL

## SECTION 5 - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID/INCOMPATIBILITY: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and sulfur dioxide.

NFPA REACTIVITY = 0 (minimal)

## SECTION 6 - HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation, ingestion, skin contact.

HEALTH HAZARDS: Irritant/Narcotic. Depression of central nervous system ranging from headaches to death. Kidney and liver damage possible. Aspiration into lungs can cause severe lung damage leading to pulmonary edema and bronchial pneumonia.

CARCINOGENICITY: Inadequate evidence as a human carcinogen. Limited evidence as an animal carcinogen. Not listed by NTP. IARC Class-2B. Recent studies have shown diesel exhaust to be potentially carcinogenic.

SIGNS AND SYMPTOMS OF EXPOSURE: Respiratory tract irritation. May cause nausea, cramping, headaches, coughing or gagging and depression of the central nervous system.

## EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: DO NOT induce vomiting. Immediately seek medical attention. Give water to dilute, if conscious.

INHALATION: Maintain respirations, assist with artificial respiration if needed and give oxygen if available and trained to do so. Seek medical attention. If liquid is in lungs (aspirated) seek medical care.

EYES: Flush eyes with water for at least 15 minutes. Seek medical attention.

SKIN: Remove diesel soaked clothing. Wash skin with soap and water. If irritation persists seek medical attention.

NFPA HEALTH = 0 (minimal)

## SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all sources of ignition. Contain spill. Use water fog to suppress vapor cloud. Use SCBA to avoid breathing vapors. Absorb liquid with sand or clay.

WASTE DISPOSAL: Dispose in accordance with RCRA regulations. Do not put in sewers or any water course.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: All equipment and storage containers should be properly grounded. This material is subject to OSHA and DOT regulations. Portable metal containers should be bonded to the storage container before transferring liquid.

OTHER PRECAUTIONS: Avoid breathing vapors. Vapors may be explosive. Do not weld on containers unless properly cleaned and purged using safe work procedures. Trace amounts of hydrogen sulfide may be present in the product. Accumulation of hydrogen sulfide may occur in vapor spaces of confined spaces where this product is hand stored or used.

**LOW SULFUR DIESEL FUEL**

**SECTION 8 - ENVIRONMENTAL AND SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** Use NIOSH/MSHA approved respiratory protection in areas exceed exposure limits, the type to be determined by the degree of exposure.

**VENTILATION:** Use in well ventilated area or provide ventilation to limit exposure to acceptable levels.

**EYE/SKIN PROTECTION:** Rubber gloves, face shields, goggles or safety glasses with side shields, coveralls.

**WORK/HYGIENIC PRACTICES:** Remove contaminated clothing as soon as possible. Always wash after handling hazardous chemicals.

**NOTICE:** This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**REFER TO DEPARTMENT OF TRANSPORTATION (DOT) EMERGENCY RESPONSE GUIDEBOOK GUIDE 27 FOR ADDITIONAL EMERGENCY INFORMATION.**

This information is believed to be accurate and as reliable as information available to us. We make no warranty or guarantee as to its accuracy and assume no liability from its use. Users should determine the suitability of the information for their particular purposes.

**MATERIAL SAFETY DATA SHEET**

UNITED SALT CORPORATION  
1300 WEST LOOP SOUTH, SUITE 700  
HOUSTON, TEXAS 77027

Date: April 9, 1990

U.S. DEPARTMENT OF LABOR, Occupational Safety and Health Administration Form Approved OMB No. 1218-0072, may be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200.

**SECTION I**

**PRODUCT IDENTITY** (As used on label and list)

**SALT, SODIUM CHLORIDE, MELT AWAY**  
CAS #7647-14-5

Emergency Telephone Number: (713) 877-2600

Telephone Number For Information: (713) 877-2600

**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

Hazardous Components (Specify Identity; Common Name(s)) OSHA PEL ACGIH TLV OTHER LIMITS RECOMMENDED X (Optional)

Sodium Chloride (NaCl) is not considered a hazardous chemical as USC interprets the OSHA Hazard Communication Standard 29 CFR 1910.1200. The information on this form has been prepared with reasonable care. USC extends no warranties, makes no representations and assumes no responsibilities as to the accuracy or suitability of such information for application to purchaser's intended purposes of or consequences of its use.

**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point: 1413°

Vapor Pressure (mm Hg.): 1 MM @ 855°

Vapor Density (AIR = 1): N/A

Solubility in Water: Appreciable (26.43% by weight at 20°C)

Appearance and Odor: Green, Crystalline, Odorless Solid

Specific Gravity (H<sub>2</sub>O = 1): 2.165

Melting Point: 800°C

Evaporation Rate (Butyl Acetate = 1): N/A

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Method Used): N/A

Flammable Limits: LEL N/A UEL N/A

Extinguishing Media: Material is non-flammable. Use media appropriate for surrounding materials.

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

---

**SECTION V - REACTIVITY DATA**

---

Stability: Unstable  
Stable X Conditions to Avoid: None

Incompatibility (Materials to Avoid): Bromine Trifluoride, Lithium

Hazardous Decomposition or Byproducts: When heated to decomposition (above 1413°C) may emit toxic fumes of Na<sub>2</sub>O and Cl<sub>2</sub>

Hazardous May Occur Conditions to Avoid:  
Polymerization: Will Not Occur X

---

**SECTION VI - HEALTH HAZARD DATA**

---

Route(s) of Entry: Eye? Yes Inhalation? Yes Skin? Yes Ingestion? Yes

Health Hazards (Acute and Chronic): Acute effects may include nausea, dryness of nasal mucous membranes, dryness of skin, redness of eyes. No harmful effects of chronic exposure.

Carcinogenicity: No NTP? No IARC Monographs? No OSHA Regulated? No

Signs and Symptoms of Exposure: Listed Above

Medical Conditions Generally Aggravated by Exposure: No Information

Emergency and First Aid Procedures: Ingestion: Drink large amounts of water; Inhalation: Remove to fresh air; Skin Contact: Wash with soap and water; Eye Contact: Flush with water for 15 minutes. Get medical attention.

---

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

---

Steps to Be Taken in Case Material is Released or Spilled: No special requirements - Check your state for reportable quantity requirements.

Waste Disposal Method: Dispose of in accordance to local state and federal regulations.

Precautions to Be Taken in Handling and Storing: Transport in dry equipment. Store in dry location.

Other Procedures: None

---

**SECTION VIII - CONTROL MEASURES**

---

Respiratory Protection (Specify Type): None required - Nuisance dust mask for personal comfort.

Ventilation: Local Exhaust Satisfactory Special:  
Mechanical Other:

Protective Gloves: Work gloves

Eye Protection: Goggles

Other Protective Clothing or Equipment: None required

Work/Hygienic Practices:

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

RECEIVED State of New Mexico  
Energy Minerals and Natural Resources

AUG 01 2003 Oil Conservation Division  
Environmental Bureau 1220 South St. Francis Dr.  
Oil Conservation Division Santa Fe, NM 87505

AUG 1 2003

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

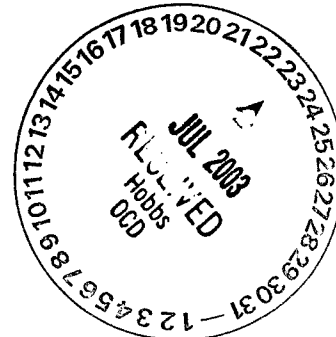
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Plains Marketing L.P. |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Pecos, Texas   |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter CRI                 |
| 7. Location of Material (Street Address or ULSTR) I-10 & Hwy 349                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8. State New Mexico                |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                    |

### BRIEF DESCRIPTION OF MATERIAL:

RE: 07-23-03A

Non-Hazardous Contaminated Soil.

Attached is Non-Exempt waste form and Analytical results.



Estimated Volume 250 yards Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers  
Waste Management Facility Authorized Agent

TITLE: Clerical DATE: 07-23-03

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

(This space for State Use)

APPROVED BY: [Signature]

TITLE: Enviro ENGR

DATE: 7/29/03

APPROVED BY: [Signature]

TITLE: Environmental Geologist

DATE: 7/30/03

073003-1



**CERTIFICATE OF WASTE STATUS**  
**NON-EXEMPT WASTE MATERIAL**  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Plains Marketing L.P.  
ADDRESS 3705 East Hwy 158 Midland TX 79706  
GENERATING SITE I-10 + Hwy 349  
COUNTY Pecos STATE Texas  
TYPE OF WASTE NON-HAZ contaminated Soil  
ESTIMATED VOLUME 250 yds  
GENERATING PROCESS oil spill from Truck  
Roll over

REMARKS \_\_\_\_\_

NMOCDF FACILITY CRT

TRUCKING COMPANY CRT

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Brad Fivcoast  
SIGNATURE

NAME Brad Fivcoast  
PRINTED

ADDRESS 1301 S. County Road 1150  
Midland TX 79706-4476

DATE 7-17-03



## ANALYTICAL REPORT

### Prepared for:

Wayne Roberts  
Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

Project: I-10/Hwy 349 Condensate Spill  
PO#:  
Order#: G0306889  
Report Date: 07/09/2003

### Certificates

US EPA Laboratory Code TX00158

---

**ENVIRONMENTAL LAB OF TEXAS****SAMPLE WORK LIST**

Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702  
687-4914

Order#: G0306889  
Project: BNC Job# 1115  
Project Name: I-10/Hwy 349 Condensate Spill  
Location: South Of Iran

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

| <u>Lab ID:</u>                     | <u>Sample :</u> | <u>Matrix:</u> | <u>Date / Time</u><br><u>Collected</u> | <u>Date / Time</u><br><u>Received</u> | <u>Container</u> | <u>Preservative</u> |
|------------------------------------|-----------------|----------------|----------------------------------------|---------------------------------------|------------------|---------------------|
| 0306889-01                         | WC #1           | SOIL           | 7/2/03<br>14:05                        | 7/2/03<br>14:53                       | Plastic Bag      | none                |
| <u>Lab Testing:</u>                |                 | Rejected: No   | Temp: 35.0 C                           |                                       |                  |                     |
| 8260B TCLP                         |                 |                |                                        |                                       |                  |                     |
| 8270C Semivolatile Organics - TCLP |                 |                |                                        |                                       |                  |                     |
| METALS RCRA 7 TCLP                 |                 |                |                                        |                                       |                  |                     |
| RCI                                |                 |                |                                        |                                       |                  |                     |
| Mercury, TCLP                      |                 |                |                                        |                                       |                  |                     |

---

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Wayne Roberts  
Platts All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

Order#: G0306889  
Project: BNC Job# 1115  
Project Name: I-10/Hwy 349 Condensate Spill  
Location: South Of town

Lab ID: 0306889-01  
Sample ID: WC #1

### 8260B TCLP

| Method     | Date     | Date     | Sample | Dilution | Analyst | Method     |
|------------|----------|----------|--------|----------|---------|------------|
| Blank      | Prepared | Analyzed | Amount | Factor   |         |            |
| 0006111-02 |          | 7/9/03   | 5      | 1        | RKT     | 1311/8260B |

| Parameter            | Result<br>µg/L | RL   |
|----------------------|----------------|------|
| Carbon tetrachloride | <1.00          | 1.00 |
| Benzene              | <1.00          | 1.00 |
| 1,2-Dichloroethane   | <1.00          | 1.00 |
| Chlorobenzene        | <1.00          | 1.00 |
| 1,1-Dichloroethene   | <1.00          | 1.00 |
| 1,4-Dichlorobenzene  | <1.00          | 1.00 |
| 2-Butanone (MEK)     | <1.00          | 1.00 |
| Chloroform           | <1.00          | 1.00 |
| Tetrachloroethene    | <1.00          | 1.00 |
| Trichloroethene      | <1.00          | 1.00 |
| Vinyl chloride       | <1.00          | 1.00 |

| Surrogates            | % Recovered | QC Limits (%) |     |
|-----------------------|-------------|---------------|-----|
| Dibromofluoromethane  | 115%        | 53            | 144 |
| 1,2-dichloroethane-d4 | 89%         | 67            | 147 |
| Toluene-d8            | 108%        | 64            | 128 |
| 4-Bromofluorobenzene  | 106%        | 47            | 158 |

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 2

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Wayne Roberts  
Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

Order#: G0306889  
Project: BNC Job# 1115  
Project Name: I-10/Hwy 349 Condensate Spill  
Location: South Of Iran

Lab ID: 0306889-01  
Sample ID: WC #1

### 8270C Semivolatile Organics - TCLP

| Method     | Date     | Date     | Sample | Dilution | Analyst | Method     |
|------------|----------|----------|--------|----------|---------|------------|
| Blank      | Prepared | Analyzed | Amount | Factor   |         |            |
| 0006115-02 |          | 7/8/03   | 1      | 1        | RKT     | 1311/8270C |

| Parameter             | Result<br>µg/L | RL   |
|-----------------------|----------------|------|
| Pyridine              | <5.00          | 5.00 |
| 1,4-Dichlorobenzene   | <5.00          | 5.00 |
| 2-Methylphenol        | <5.00          | 5.00 |
| Hexachloroethane      | <5.00          | 5.00 |
| Nitrobenzene          | <5.00          | 5.00 |
| Hexachlorobutadiene   | <5.00          | 5.00 |
| 2,4,6-Trichlorophenol | <5.00          | 5.00 |
| 2,4,5-Trichlorophenol | <5.00          | 5.00 |
| 2,4-Dinitrotoluene    | <5.00          | 5.00 |
| Hexachlorobenzene     | <5.00          | 5.00 |
| Pentachlorophenol     | <5.00          | 5.00 |
| 4-Methylphenol        | <5.00          | 5.00 |

| Surrogates           | % Recovered | QC Limits (%) |     |
|----------------------|-------------|---------------|-----|
| 2-Fluorophenol       | 22%         | 21            | 110 |
| Phenol-d5            | 17%         | 10            | 110 |
| Nitrobenzene-d5      | 36%         | 23            | 120 |
| 2-Fluorobiphenyl     | 57%         | 30            | 116 |
| 2,4,6-Tribromophenol | 49%         | 10            | 123 |
| p-Terphenyl-d14      | 97%         | 18            | 137 |

Approval: Roland K. Tuttle 7-09-03  
 Roland K. Tuttle, Lab Director, QA Officer Date  
 Cley D. Keene, Org. Tech. Director  
 Jeanne McMurrey, Inorg. Tech. Director  
 Sandra Biczugbe, Lab Tech.  
 Sara Molina, Lab Tech.

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Wayne Roberts  
Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

Order#: G0306889  
Project: BNC Job# 1115  
Project Name: I-10/Hwy 349 Condensate Spill  
Location: South Of Iran

Lab ID: 0306889-01  
Sample ID: WC #1

### METALS RCRA 7 TCLP

| Parameter | Result | Units | Dilution Factor | RL    | Method     | Date Prepared | Date Analyzed | Analyst |
|-----------|--------|-------|-----------------|-------|------------|---------------|---------------|---------|
| Arsenic   | <0.008 | mg/L  | 1               | 0.008 | 1311/6010B | 07/02/2003    | 7/8/03        | SM      |
| Barium    | 0.541  | mg/L  | 1               | 0.001 | 1311/6010B | 07/02/2003    | 7/8/03        | SM      |
| Cadmium   | <0.001 | mg/L  | 1               | 0.001 | 1311/6010B | 07/02/2003    | 7/8/03        | SM      |
| Chromium  | <0.002 | mg/L  | 1               | 0.002 | 1311/6010B | 07/02/2003    | 7/8/03        | SM      |
| Lead      | <0.011 | mg/L  | 1               | 0.011 | 1311/6010B | 07/02/2003    | 7/8/03        | SM      |
| Selenium  | 0.010  | mg/L  | 1               | 0.004 | 1311/6010B | 07/02/2003    | 7/8/03        | SM      |
| Silver    | <0.002 | mg/L  | 1               | 0.002 | 1311/6010B | 07/02/2003    | 7/8/03        | SM      |

### Test Parameters

| Parameter     | Result  | Units | Dilution Factor | RL     | Method    | Date Prepared | Date Analyzed | Analyst |
|---------------|---------|-------|-----------------|--------|-----------|---------------|---------------|---------|
| Mercury, TCLP | <0.0005 | mg/L  | 1               | 0.0005 | 1311/7470 | 07/02/2003    | 7/8/03        | SM      |

Approval: Roland K. Tuttle 7-09-03  
 Roland K. Tuttle, Lab Director, QA Officer  
 Cecily D. Keene, Org. Tech. Director  
 Jeanne McMurrey, Inorg. Tech. Director  
 Sandra Biezugbe, Lab Tech.  
 Sara Molina, Lab Tech.

N/A - Not Applicable RL - Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

Page 1 of 1

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Wayne Roberts  
Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

Order#: G0306889  
Project: BNC Job# 1115  
Project Name: I-10/Hwy 349 Condensate Spill  
Location: South Of Iran

Lab ID: 0306889-01

Sample ID: WC #1

### RCI

| Parameter        | Result | Units    | Dilution<br>Factor | RL   | Method     | Date<br>Analyzed | Analyst |
|------------------|--------|----------|--------------------|------|------------|------------------|---------|
| Ignitability     | >100   | C        | 1                  | NA   | 1010       | 7/3/03           | CK      |
| pH               | 8.31   | pH Units | 1                  | N/A  | 9045C      | 7/2/03           | TAL     |
| Reactive Cyanide | <0.09  | mg/kg    | 1                  | 0.09 | SW846 CH.7 | 7/3/03           | SB      |
| Reactive Sulfide | <5.00  | mg/kg    | 1                  | 5.00 | SW846 CH.7 | 7/3/03           | SB      |

Approval: Roland K. Tuttle 7-09-03  
Roland K. Tuttle, Lab Director, QA Officer  
Coley D. Keene, Org. Tech. Director  
Jeanne McMurray, Inorg. Tech. Director  
Sandra Biczugbe, Lab Tech.  
Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

8270C Semivolatile Organics - TCLP

Order#: G0306889

| <b>BLANK</b>               | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
|----------------------------|------|------------|------------------|-----------------|----------------|------------------|-------|
| Pyridine-µg/L              |      | 0006115-02 |                  |                 | <5.00          |                  |       |
| 1,4-Dichlorobenzene-µg/L   |      | 0006115-02 |                  |                 | <5.00          |                  |       |
| 2-Methylphenol-µg/L        |      | 0006115-02 |                  |                 | <5.00          |                  |       |
| Hexachloroethane-µg/L      |      | 0006115-02 |                  |                 | <5.00          |                  |       |
| Nitrobenzene-µg/L          |      | 0006115-02 |                  |                 | <5.00          |                  |       |
| Hexachlorobutadiene-µg/L   |      | 0006115-02 |                  |                 | <5.00          |                  |       |
| 2,4,5-Trichlorophenol-µg/L |      | 0006115-02 |                  |                 | <5.00          |                  |       |
| 2,4-Dinitrotoluene-µg/L    |      | 0006115-02 |                  |                 | <5.00          |                  |       |
| Hexachlorobenzene-µg/L     |      | 0006115-02 |                  |                 | <5.00          |                  |       |
| Pentachlorophenol-µg/L     |      | 0006115-02 |                  |                 | <5.00          |                  |       |
| 4-Methylphenol-µg/L        |      | 0006115-02 |                  |                 | <5.00          |                  |       |
| <b>CONTROL</b>             | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| 1,4-Dichlorobenzene-µg/L   |      | 0006115-03 |                  | 50              | 35             | 70.0%            |       |
| 2,4-Dinitrotoluene-µg/L    |      | 0006115-03 |                  | 50              | 36             | 72.0%            |       |
| Pentachlorophenol-µg/L     |      | 0006115-03 |                  | 50              | 31             | 62.0%            |       |
| <b>CONTROL DUP</b>         | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| 1,4-Dichlorobenzene-µg/L   |      | 0006115-04 |                  | 50              | 34.7           | 69.4%            | 0.9%  |
| 2,4-Dinitrotoluene-µg/L    |      | 0006115-04 |                  | 50              | 34.7           | 69.4%            | 3.7%  |
| Pentachlorophenol-µg/L     |      | 0006115-04 |                  | 50              | 24.7           | 49.4%            | 22.6% |
| <b>SRM</b>                 | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| 1,4-Dichlorobenzene-µg/L   |      | 0006115-05 |                  | 50              | 51             | 102.0%           |       |
| Hexachlorobutadiene-µg/L   |      | 0006115-05 |                  | 50              | 59             | 118.0%           |       |
| Pentachlorophenol-µg/L     |      | 0006115-05 |                  | 50              | 42             | 84.0%            |       |



## ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

## METALS RCRA 7 TCLP

Order#: G0306889

| <b>BLANK</b>       | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
|--------------------|------|------------|------------------|-----------------|----------------|------------------|------|
| Arsenic-mg/L       |      | 0006091-02 |                  |                 | <0.008         |                  |      |
| Barium-mg/L        |      | 0006091-02 |                  |                 | <0.001         |                  |      |
| Cadmium-mg/L       |      | 0006091-02 |                  |                 | <0.001         |                  |      |
| Chromium-mg/L      |      | 0006091-02 |                  |                 | <0.002         |                  |      |
| Lead-mg/L          |      | 0006091-02 |                  |                 | <0.011         |                  |      |
| Selenium-mg/L      |      | 0006091-02 |                  |                 | <0.004         |                  |      |
| Silver-mg/L        |      | 0006091-02 |                  |                 | <0.002         |                  |      |
| <b>CONTROL</b>     | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |      | 0006091-03 |                  | 0.8             | 0.694          | 86.7%            |      |
| Barium-mg/L        |      | 0006091-03 |                  | 0.2             | 0.201          | 100.5%           |      |
| Cadmium-mg/L       |      | 0006091-03 |                  | 0.2             | 0.177          | 88.5%            |      |
| Chromium-mg/L      |      | 0006091-03 |                  | 0.2             | 0.193          | 96.5%            |      |
| Lead-mg/L          |      | 0006091-03 |                  | 1               | 0.983          | 98.3%            |      |
| Selenium-mg/L      |      | 0006091-03 |                  | 0.4             | 0.325          | 81.3%            |      |
| Silver-mg/L        |      | 0006091-03 |                  | 0.1             | 0.093          | 93.1%            |      |
| <b>CONTROL DUP</b> | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |      | 0006091-04 |                  | 0.8             | 0.690          | 86.2%            | 0.6% |
| Barium-mg/L        |      | 0006091-04 |                  | 0.2             | 0.203          | 101.5%           | 1.1% |
| Cadmium-mg/L       |      | 0006091-04 |                  | 0.2             | 0.176          | 88.1%            | 0.6% |
| Chromium-mg/L      |      | 0006091-04 |                  | 0.2             | 0.193          | 96.5%            | 0.1% |
| Lead-mg/L          |      | 0006091-04 |                  | 1               | 0.973          | 97.3%            | 1.1% |
| Selenium-mg/L      |      | 0006091-04 |                  | 0.4             | 0.328          | 82.1%            | 0.9% |
| Silver-mg/L        |      | 0006091-04 |                  | 0.1             | 0.097          | 97.1%            | 4.2% |
| <b>SRM</b>         | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |      | 0006091-05 |                  | 1               | 1.00           | 100.1%           |      |
| Barium-mg/L        |      | 0006091-05 |                  | 1               | 1.01           | 101.1%           |      |
| Cadmium-mg/L       |      | 0006091-05 |                  | 1               | 0.996          | 99.6%            |      |
| Chromium-mg/L      |      | 0006091-05 |                  | 1               | 0.995          | 99.5%            |      |
| Lead-mg/L          |      | 0006091-05 |                  | 1               | 1.00           | 100.1%           |      |
| Selenium-mg/L      |      | 0006091-05 |                  | 1               | 1.00           | 100.1%           |      |
| Silver-mg/L        |      | 0006091-05 |                  | 0.5             | 0.497          | 99.4%            |      |

## ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

RCI

Order#: G0306389

| <b>BLANK</b>           | SLUDGE | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
|------------------------|--------|------------|------------------|-----------------|----------------|------------------|------|
| pH-pH Units            |        | 0006065-01 |                  |                 | 6.83           |                  |      |
| pH-pH Units            |        | 0006065-01 |                  |                 | 6.83           |                  |      |
| pH-pH Units            |        | 0006065-01 |                  |                 | 6.83           |                  |      |
| Reactive Cyanide-mg/kg |        | 0006089-01 |                  |                 | <0.09          |                  |      |
| Reactive Sulfide-mg/kg |        | 0006090-01 |                  |                 | <5.00          |                  |      |
| <b>CONTROL</b>         | SOIL   | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Reactive Cyanide-mg/kg |        | 0006089-02 |                  | 0.1             | 0.093          | 93.3%            |      |
| Reactive Sulfide-mg/kg |        | 0006090-02 |                  | 22.2            | 20.6           | 92.8%            |      |
| <b>CONTROL DUP</b>     | SOIL   | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Reactive Cyanide-mg/kg |        | 0006089-03 |                  | 0.1             | 0.090          | 90.0%            | 3.3% |
| Reactive Sulfide-mg/kg |        | 0006090-03 |                  | 22.2            | 20.9           | 94.1%            | 1.4% |
| <b>DUPLICATE</b>       | SOIL   | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Ignitability-C         |        | 0306857-01 | 0                |                 | >100           |                  | 0.0% |
| pH-pH Units            |        | 0306884-01 | 7.12             |                 | 7.12           |                  | 0.0% |
| pH-pH units            |        | 0306887-01 | 1.4              |                 | 1.47           |                  | 4.9% |
| pH-pH Units            |        | 0306889-01 | 8.51             |                 | 8.58           |                  | 0.8% |
| Reactive Cyanide-mg/kg |        | 0306889-01 | 0                |                 | <0.09          |                  | 0.0% |
| Reactive Sulfide-mg/kg |        | 0306889-01 | 0                |                 | <5.00          |                  | 0.0% |
| <b>SRM</b>             | SOIL   | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| pH-pH Units            |        | 0006065-04 |                  | 7               | 7.04           | 100.6%           |      |
| pH-pH Units            |        | 0006065-04 |                  | 7               | 7.04           | 100.6%           |      |
| pH-pH Units            |        | 0006065-04 |                  | 7               | 7.04           | 100.6%           |      |
| Reactive Cyanide-mg/kg |        | 0006089-04 |                  | 1               | 1.10           | 110.0%           |      |
| Reactive Sulfide-mg/kg |        | 0006090-04 |                  | 680             | 639            | 94.0%            |      |

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

## Test Parameters

Order#: G0306889

| <b>BLANK</b>       | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
|--------------------|------|------------|---------------------|--------------------|-------------------|---------------------|------|
| Mercury, TCLP-mg/L |      | 0006092-01 |                     |                    | <0.0005           |                     |      |
| <b>CONTROL</b>     | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |      | 0006092-02 |                     | 0.001              | 0.00098           | 98.%                |      |
| <b>CONTROL DUP</b> | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |      | 0006092-03 |                     | 0.001              | 0.00095           | 95.%                | 3.1% |
| <b>SRM</b>         | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |      | 0006092-04 |                     | 0.001              | 0.00098           | 98.%                |      |

p. 3

**p. 2**

## Environmental Lab of Texas

**12600 West 1-20 East  
Odessa, Texas 79763**

**Phone: 432-563-1800**  
**Fax: 432-563-1713**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Project Manager:**

WAGNE Roberts

Project Name: I-10 / Hwy 349 Corridor

**Company Name**

# Plans All American

Project #: BNC Job # 1115

**Company Address:**

MILAN

Project Loc: Sixth of Tirm

City/State/Zip:

12

**POB:**

**Telephone No:**

1

Fax No:

**Sampler Signatures:**

20

## BNC Environmental Services

PM - Craig Eschberger F44 9/15/2018

**BNC Environmental Services**  
**PM - CEMIS Exhibitor** **F# 915/6860186**

|                                                                    |        |         |
|--------------------------------------------------------------------|--------|---------|
| LAB # (lab use only)                                               | 01     | 0306889 |
| FIELD CODE                                                         | LOC #1 |         |
| Date Sampled                                                       | 7/2/03 | 14:05   |
| Time Sampled                                                       |        |         |
| No. of Containers                                                  | 1      |         |
| Ice                                                                |        |         |
| HNO <sub>3</sub>                                                   |        |         |
| HCl                                                                |        |         |
| NaOH                                                               |        |         |
| H <sub>2</sub> SO <sub>4</sub>                                     |        |         |
| None                                                               |        |         |
| Other (Specify)                                                    |        |         |
| Water                                                              |        |         |
| Sludge                                                             |        |         |
| Soil                                                               | X      |         |
| Other (specify):                                                   |        |         |
| TPH: 418.1 8015M 1005 1006                                         |        |         |
| Cations (Ca, Mg, Na, K)                                            |        |         |
| Anions (Cl, SO <sub>4</sub> , CO <sub>3</sub> , HCO <sub>3</sub> ) |        |         |
| SAR / ESP / CEC                                                    |        |         |
| Metals: As Ag Ba Cd Cr Pb Hg Se                                    | X      |         |
| Volatiles                                                          | X      |         |
| Semivolatiles                                                      | X      |         |
| BTEX 80218/8030                                                    |        |         |
| RCI                                                                | X      |         |
| N.O.R.M.                                                           |        |         |
| Total Gamma                                                        |        |         |
| RUSH TAT (Pre-Schedule)                                            |        |         |
| Standard TAT                                                       | X      |         |

Special Instructions: **Note: Run the TAP VOL, SEMI-VOL, METALS & PEST PACKAGE**  
**Previously Discussed w/eland - F#Y Results to CEMIS/BNC, also**

Relinquished by: **Wick** Date: **7-2-03** Time: **1453** Received by: **ELAND** Date: **7/2/03** Time: **1453**

Relinquished by: **Wick** Date: **7-2-03** Time: **1453** Received by: **Wick** Date: **7/2/03** Time: **1453**

Sample Containers Intact? **(X)** Temperature Upon Receipt: **35.0°C** Laboratory Comments: **Plastic Bag**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87401  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

AUG 01 2003

State of New Mexico  
Energy Minerals and Natural Resources  
Environmental Bureau  
Oil Conservation Division  
Conservation Division  
220 South St. Francis Dr.  
Santa Fe, NM 87505

AUG 1 2003

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

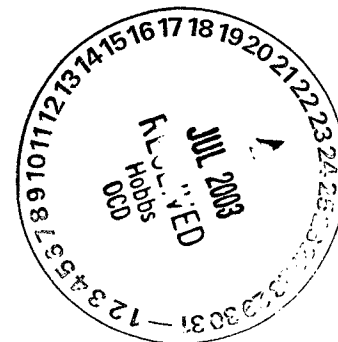
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Plains Marketing L.P. |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Andrews, Texas |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter CRI                 |
| 7. Location of Material (Street Address or ULSTR) Andrews - Mobil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8. State New Mexico                |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                    |

### BRIEF DESCRIPTION OF MATERIAL:

RE: 07-23-03B

Non-Hazardous Contaminated Soil.

Attached is Non-Exempt waste form and Analytical results.



Estimated Volume 450 yards Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers  
Waste Management Facility Authorized Agent

TITLE: Clerical DATE: 07-23-03

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

073003-2

(This space for State Use)

APPROVED BY: [Signature]

TITLE: Enviro ENGR

DATE: 7/29/03

APPROVED BY: [Signature]

TITLE: Environmental Geologist

DATE: 7/30/03

CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Plains Marketing L.P.

ADDRESS 3705 East Hwy 158 Midland Tx 79706

GENERATING SITE Andrews - Mobil

COUNTY Andrews STATE TEXAS

TYPE OF WASTE NON HAZ. Contaminated. Soil

ESTIMATED VOLUME 450 yards

GENERATING PROCESS oil spill at TANK Battery

REMARKS \_\_\_\_\_

NMOCD FACILITY \_\_\_\_\_

TRUCKING COMPANY \_\_\_\_\_

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Brad Farnit  
SIGNATURE

NAME Brad Fivecoat  
PRINTED

ADDRESS 1301 S. County Road 1150

Midland Texas 79706-4476

DATE 7-17-03

# ANALYTICAL REPORT

## Prepared for:

Wayne Roberts  
Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

**Project:** Andrews South

**PO#:**

**Order#:** G0306857

**Report Date:** 07/09/2003

## Certificates

US EPA Laboratory Code TX00158

# ENVIRONMENTAL LAB OF TEXAS

## SAMPLE WORK LIST

Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702  
687-4914

Order#: G0306857  
Project: BWC Job #1128  
Project Name: Andrews South  
Location: Andrews, Tx.

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

| <u>Lab ID:</u>                     | <u>Sample :</u> | <u>Matrix:</u> | <u>Date / Time</u><br><u>Collected</u> | <u>Date / Time</u><br><u>Received</u> | <u>Container</u> | <u>Preservative</u> |
|------------------------------------|-----------------|----------------|----------------------------------------|---------------------------------------|------------------|---------------------|
| 0306857-01                         | WC#1            | SOIL           | 6/27/03<br>11:30                       | 6/27/03<br>14:00                      | Plastic Bag      | None                |
| <u>Lab Testing:</u>                |                 | Rejected: No   | Temp: 24.5 C                           |                                       |                  |                     |
| 1005 TNRCC Rev 03                  |                 |                |                                        |                                       |                  |                     |
| 8021B/5030 BTEX                    |                 |                |                                        |                                       |                  |                     |
| 8260B TCLP                         |                 |                |                                        |                                       |                  |                     |
| 8270C Semivolatile Organics - TCLP |                 |                |                                        |                                       |                  |                     |
| METALS RCRA 7 TCLP                 |                 |                |                                        |                                       |                  |                     |
| RCI                                |                 |                |                                        |                                       |                  |                     |
| Mercury, TCLP                      |                 |                |                                        |                                       |                  |                     |



# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Wayne Roberts  
Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

Order#: G0306857  
Project: BWC Job #1128  
Project Name: Andrews South  
Location: Andrews, Tx.

Lab ID: 0306857-01  
Sample ID: WC#1

### 8260B TCLP

| Method<br><u>Blank</u> | Date<br><u>Prepared</u> | Date<br><u>Analyzed</u> | Sample<br><u>Amount</u> | Dilution<br><u>Factor</u> | Analyst | Method     |
|------------------------|-------------------------|-------------------------|-------------------------|---------------------------|---------|------------|
| 0006111-02             |                         | 7/9/03                  | 5                       | 1                         | RKT     | 1311/8260B |

| Parameter            | Result<br>µg/L | RL   |
|----------------------|----------------|------|
| Carbon tetrachloride | <1.00          | 1.00 |
| Benzene              | <1.0           | 1.00 |
| 1,2-Dichloroethane   | <1.00          | 1.00 |
| Chlorobenzene        | <1.00          | 1.00 |
| 1,1-Dichloroethene   | <1.00          | 1.00 |
| 1,4-Dichlorobenzene  | <1.00          | 1.00 |
| 2-Butanone (MEK)     | <1.00          | 1.00 |
| Chloroform           | <1.00          | 1.00 |
| Tetrachloroethene    | <1.00          | 1.00 |
| Trichloroethene      | <1.00          | 1.00 |
| Vinyl chloride       | <1.00          | 1.00 |

| Surrogates            | % Recovered | QC Limits (%) |     |
|-----------------------|-------------|---------------|-----|
| Dibromofluoromethane  | 82%         | 53            | 144 |
| 1,2-dichloroethane-d4 | 59%         | 57            | 147 |
| Toluene-d8            | 103%        | 64            | 128 |
| 4-Bromofluorobenzene  | 115%        | 47            | 158 |

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 2

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Wayne Roberts  
Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

Order#: G0306857  
Project: BWC Job #1128  
Project Name: Andrews South  
Location: Andrews, Tx.

Lab ID: 0306857-01

Sample ID: WC#1

### 8270C Semivolatile Organics - TCLP

| Method<br>Blank | Date<br>Prepared | Date<br>Analyzed | Sample<br>Amount | Dilution<br>Factor | Analyst | Method     |
|-----------------|------------------|------------------|------------------|--------------------|---------|------------|
| 0006115-02      |                  | 7/8/03           | 1                | 1                  | RKT     | 1311/8270C |

| Parameter             | Result<br>µg/L | RL |
|-----------------------|----------------|----|
| Pyridine              | <8.0           | 8  |
| 1,4-Dichlorobenzene   | <8.0           | 8  |
| 2-Methylphenol        | <8.0           | 8  |
| Hexachloroethane      | <8.0           | 8  |
| Nitrobenzene          | <8.0           | 8  |
| Hexachlorobutadiene   | <8.0           | 8  |
| 2,4,6-Trichlorophenol | <8.0           | 8  |
| 2,4,5-Trichlorophenol | <8.0           | 8  |
| 2,4-Dinitrotoluene    | <8.0           | 8  |
| Hexachlorobenzene     | <8.0           | 8  |
| Pentachlorophenol     | <8.0           | 8  |
| 4-Methylphenol        | <8.0           | 8  |

| Surrogates           | % Recovered | QC Limits (%) |     |
|----------------------|-------------|---------------|-----|
| 2-Fluorophenol       | 16%         | 21            | 110 |
| Phenol-d5            | 10%         | 10            | 110 |
| Nitrobenzene-d5      | 39%         | 23            | 120 |
| 2-Fluorobiphenyl     | 53%         | 30            | 116 |
| 2,4,6-Tribromophenol | 28%         | 10            | 123 |
| p-Terphenyl-d14      | 33%         | 18            | 137 |

Approval:

Raland K. Tuttle, Lab Director, QA Officer

Celey D. Keene, Org. Tech. Director

Jeanne McMurrey, Inorg. Tech. Director

Sandra Biezugbe, Lab Tech.

Sara Molina, Lab Tech.

Date

7-09-03

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 2

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Wayne Roberts  
Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

Order#: G0306857  
Project: BWC Job #1128  
Project Name: Andrews South  
Location: Andrews, Tx.

Lab ID: 0306857-01  
Sample ID: WC#1

### 1005 TNRCC Rev 03

| Method       | Date            | Date            | Sample        | Dilution      | Analyst | Method |
|--------------|-----------------|-----------------|---------------|---------------|---------|--------|
| <u>Blank</u> | <u>Prepared</u> | <u>Analyzed</u> | <u>Amount</u> | <u>Factor</u> |         |        |
|              |                 | 6/29/03         | 1             | 1             | CK      | 1005   |

| Parameter     | Result<br>mg/kg | RL   |
|---------------|-----------------|------|
| GRO, C6-C12   | 75.0            | 25.0 |
| DRO, >C12-C35 | 1,780           | 25.0 |
| TOTAL, C6-C35 | 1,855           | 25.0 |

| Surrogates         | % Recovered | QC Limits (%) |     |
|--------------------|-------------|---------------|-----|
| 1-Chlorooctane     | 100%        | 70            | 130 |
| 1-Chlorooctadecane | 100%        | 70            | 130 |

### 8021B/5030 BTEX

| Method       | Date            | Date            | Sample        | Dilution      | Analyst | Method |
|--------------|-----------------|-----------------|---------------|---------------|---------|--------|
| <u>Blank</u> | <u>Prepared</u> | <u>Analyzed</u> | <u>Amount</u> | <u>Factor</u> |         |        |
| 0006053-02   |                 | 7/1/03<br>12:12 | 1             | 25            | CK      | 8021B  |

| Parameter    | Result<br>mg/kg | RL    |
|--------------|-----------------|-------|
| Benzene      | <0.025          | 0.025 |
| Toluene      | 0.041           | 0.025 |
| Ethylbenzene | 0.202           | 0.025 |
| p/m-Xylene   | 0.228           | 0.025 |
| o-Xylene     | 0.060           | 0.025 |

| Surrogates         | % Recovered | QC Limits (%) |     |
|--------------------|-------------|---------------|-----|
| aaa-Toluene        | 127%        | 80            | 120 |
| Bromofluorobenzene | 118%        | 80            | 120 |

Approval:

Raland K. Tuttle, Lab Director, QA Officer  
Celey D. Keene, Org. Tech. Director  
Jeanne McMurrey, Inorg. Tech. Director  
Sandra Biezugbe, Lab Tech.  
Sara Molina, Lab Tech.

07-09-03

Date

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Wayne Roberts  
Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

Order#: G0306857  
Project: BWC Job #1128  
Project Name: Andrews South  
Location: Andrews, Tx.

Lab ID: 0306857-01  
Sample ID: WC#1

### ***METALS RCRA 7 TCLP***

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> | <u>Dilution</u><br><u>Factor</u> | <u>RL</u> | <u>Method</u> | <u>Date</u><br><u>Prepared</u> | <u>Date</u><br><u>Analyzed</u> | <u>Analyst</u> |
|------------------|---------------|--------------|----------------------------------|-----------|---------------|--------------------------------|--------------------------------|----------------|
| Arsenic          | <0.008        | mg/L         | 1                                | 0.008     | 1311/6010B    | 07/01/2003                     | 7/8/03                         | SM             |
| Barium           | 0.618         | mg/L         | 1                                | 0.001     | 1311/6010B    | 07/01/2003                     | 7/8/03                         | SM             |
| Cadmium          | <0.001        | mg/L         | 1                                | 0.001     | 1311/6010B    | 07/01/2003                     | 7/8/03                         | SM             |
| Chromium         | <0.002        | mg/L         | 1                                | 0.002     | 1311/6010B    | 07/01/2003                     | 7/8/03                         | SM             |
| Lead             | <0.011        | mg/L         | 1                                | 0.011     | 1311/6010B    | 07/01/2003                     | 7/8/03                         | SM             |
| Selenium         | 0.004         | mg/L         | 1                                | 0.004     | 1311/6010B    | 07/01/2003                     | 7/8/03                         | SM             |
| Silver           | <0.002        | mg/L         | 1                                | 0.002     | 1311/6010B    | 07/01/2003                     | 7/8/03                         | SM             |

### ***Test Parameters***

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> | <u>Dilution</u><br><u>Factor</u> | <u>RL</u> | <u>Method</u> | <u>Date</u><br><u>Prepared</u> | <u>Date</u><br><u>Analyzed</u> | <u>Analyst</u> |
|------------------|---------------|--------------|----------------------------------|-----------|---------------|--------------------------------|--------------------------------|----------------|
| Mercury, TCLP    | <0.0005       | mg/L         | 1                                | 0.0005    | 1311/7470     | 07/01/2003                     | 7/8/03                         | SM             |

Approval:

Raland K. Tuttle, Lab Director, QA Officer  
Celey D. Keene, Org. Tech. Director  
Jeanne McMurrey, Inorg. Tech. Director  
Sandra Biezugbe, Lab Tech.  
Sara Molina, Lab Tech.

Date

N/A = Not Applicable RL = Reporting Limit

Page 1 of 1

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Wayne Roberts  
Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

Order#: G0306857  
Project: BWC Job #1128  
Project Name: Andrews South  
Location: Andrews, Tx.

Lab ID: 0306857-01  
Sample ID: WC#1

### RCI

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> | <u>Dilution</u><br><u>Factor</u> | <u>RL</u> | <u>Method</u> | <u>Date</u><br><u>Analyzed</u> | <u>Analyst</u> |
|------------------|---------------|--------------|----------------------------------|-----------|---------------|--------------------------------|----------------|
| Ignitability     | >100          | C            | 1                                | NA        | 1010          | 7/3/03                         | CK             |
| pH               | 7.94          | pH Units     | 1                                | N/A       | 9045C         | 7/1/03                         | TAL            |
| Reactive Cyanide | <0.09         | mg/kg        | 1                                | 0.09      | SW846 CH.7    | 7/3/03                         | SB             |
| Reactive Sulfide | <5.00         | mg/kg        | 1                                | 5.00      | SW846 CH.7    | 7/3/03                         | SB             |

Approval:

*Raland K. Tuttle* - 7-09-03  
Raland K. Tuttle, Lab Director, QA Officer  
Celey D. Keene, Org. Tech. Director  
Jeanne McMurrey, Inorg. Tech. Director  
Sandra Biezugbe, Lab Tech.  
Sara Molina, Lab Tech.

Date

RL = Reporting Limit    N/A = Not Applicable

Page 1 of 1

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

8270C Semivolatile Organics - TCLP

Order#: G0306857

| <b>BLANK</b>               | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
|----------------------------|------|------------|------------------|-----------------|----------------|------------------|-------|
| Pyridine-µg/L              |      | 0006115-02 |                  |                 | <5.0           |                  |       |
| 1,4-Dichlorobenzene-µg/L   |      | 0006115-02 |                  |                 | <5.0           |                  |       |
| 2-Methylphenol-µg/L        |      | 0006115-02 |                  |                 | <5.0           |                  |       |
| Hexachloroethane-µg/L      |      | 0006115-02 |                  |                 | <5.0           |                  |       |
| Nitrobenzene-µg/L          |      | 0006115-02 |                  |                 | <5.0           |                  |       |
| Hexachlorobutadiene-µg/L   |      | 0006115-02 |                  |                 | <5.0           |                  |       |
| 2,4,5-Trichlorophenol-µg/L |      | 0006115-02 |                  |                 | <5.0           |                  |       |
| 2,4-Dinitrotoluene-µg/L    |      | 0006115-02 |                  |                 | <5.0           |                  |       |
| Hexachlorobenzene-µg/L     |      | 0006115-02 |                  |                 | <5.0           |                  |       |
| Pentachlorophenol-µg/L     |      | 0006115-02 |                  |                 | <5.0           |                  |       |
| 4-Methylphenol-µg/L        |      | 0006115-02 |                  |                 | <5.0           |                  |       |
| <b>CONTROL</b>             | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| 1,4-Dichlorobenzene-µg/L   |      | 0006115-03 |                  | 50.0            | 35.0           | 70.0%            |       |
| 2,4-Dinitrotoluene-µg/L    |      | 0006115-03 |                  | 50.0            | 36.0           | 72.0%            |       |
| Pentachlorophenol-µg/L     |      | 0006115-03 |                  | 50.0            | 31.0           | 62.0%            |       |
| <b>CONTROL DUP</b>         | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| 1,4-Dichlorobenzene-µg/L   |      | 0006115-04 |                  | 50.0            | 34.7           | 69.4%            | 0.9%  |
| 2,4-Dinitrotoluene-µg/L    |      | 0006115-04 |                  | 50.0            | 34.7           | 69.4%            | 3.7%  |
| Pentachlorophenol-µg/L     |      | 0006115-04 |                  | 50.0            | 24.7           | 49.4%            | 22.6% |
| <b>SRM</b>                 | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| 1,4-Dichlorobenzene-µg/L   |      | 0006115-05 |                  | 50.0            | 51.0           | 102.0%           |       |
| Hexachlorobutadiene-µg/L   |      | 0006115-05 |                  | 50.0            | 59.0           | 118.0%           |       |
| Pentachlorophenol-µg/L     |      | 0006115-05 |                  | 50.0            | 42.0           | 84.0%            |       |

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

8260B TCLP

Order#: G0306857

| <i>SRM</i>          | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD |
|---------------------|------|------------|---------------------|--------------------|-------------------|---------------------|-----|
| Chloroform-µg/L     |      | 0006111-05 |                     | 50.0               | 61.0              | 122.%               |     |
| Vinyl chloride-µg/L |      | 0006111-05 |                     | 50.0               | 50.4              | 100.8%              |     |

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

8260B TCLP

Order#: G0306857

| <b>BLANK</b>              | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
|---------------------------|------|------------|------------------|-----------------|----------------|------------------|-------|
| Carbon tetrachloride-µg/L |      | 0006111-02 |                  |                 | <1.0           |                  |       |
| Benzene-µg/L              |      | 0006111-02 |                  |                 | <1.0           |                  |       |
| 1,2-Dichloroethane-µg/L   |      | 0006111-02 |                  |                 | <1.0           |                  |       |
| Chlorobenzene-µg/L        |      | 0006111-02 |                  |                 | <1.0           |                  |       |
| 1,1-Dichloroethene-µg/L   |      | 0006111-02 |                  |                 | <1.0           |                  |       |
| 1,4-Dichlorobenzene-µg/L  |      | 0006111-02 |                  |                 | <1.0           |                  |       |
| 2-Butanone (MEK)-µg/L     |      | 0006111-02 |                  |                 | <1.0           |                  |       |
| Chloroform-µg/L           |      | 0006111-02 |                  |                 | <1.0           |                  |       |
| Tetrachloroethene-µg/L    |      | 0006111-02 |                  |                 | <1.0           |                  |       |
| Trichloroethene-µg/L      |      | 0006111-02 |                  |                 | <1.0           |                  |       |
| Vinyl chloride-µg/L       |      | 0006111-02 |                  |                 | <1.0           |                  |       |
| <b>MS</b>                 | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| Carbon tetrachloride-µg/L |      | 0306857-01 | 0                | 75.0            | 68.0           | 90.7%            |       |
| Benzene-µg/L              |      | 0306857-01 | 0                | 75.0            | 77.0           | 102.7%           |       |
| 1,2-Dichloroethane-µg/L   |      | 0306857-01 | 0                | 75.0            | 70.0           | 93.3%            |       |
| Chlorobenzene-µg/L        |      | 0306857-01 | 0                | 75.0            | 64.0           | 85.3%            |       |
| 1,1-Dichloroethene-µg/L   |      | 0306857-01 | 0                | 75.0            | 95.0           | 126.7%           |       |
| 1,4-Dichlorobenzene-µg/L  |      | 0306857-01 | 0                | 75.0            | 66.0           | 88.8%            |       |
| 2-Butanone (MEK)-µg/L     |      | 0306857-01 | 0                | 150             | 165            | 110.0%           |       |
| Chloroform-µg/L           |      | 0306857-01 | 0                | 75.0            | 87.0           | 116.0%           |       |
| Tetrachloroethene-µg/L    |      | 0306857-01 | 0                | 75.0            | 52.0           | 69.3%            |       |
| Trichloroethene-µg/L      |      | 0306857-01 | 0                | 75.0            | 55.0           | 73.3%            |       |
| Vinyl chloride-µg/L       |      | 0306857-01 | 0                | 75.0            | 79.0           | 105.3%           |       |
| <b>MSD</b>                | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| Carbon tetrachloride-µg/L |      | 0306857-01 | 0                | 75.0            | 70.0           | 93.3%            | 2.9%  |
| Benzene-µg/L              |      | 0306857-01 | 0                | 75.0            | 76.0           | 101.3%           | 1.3%  |
| 1,2-Dichloroethane-µg/L   |      | 0306857-01 | 0                | 75.0            | 58.0           | 77.3%            | 18.8% |
| Chlorobenzene-µg/L        |      | 0306857-01 | 0                | 75.0            | 66.0           | 88.0%            | 3.1%  |
| 1,1-Dichloroethene-µg/L   |      | 0306857-01 | 0                | 75.0            | 99.0           | 132.0%           | 4.1%  |
| 1,4-Dichlorobenzene-µg/L  |      | 0306857-01 | 0                | 75.0            | 64.0           | 85.3%            | 3.1%  |
| 2-Butanone (MEK)-µg/L     |      | 0306857-01 | 0                | 150             | 184            | 122.7%           | 10.9% |
| Chloroform-µg/L           |      | 0306857-01 | 0                | 75.0            | 86.0           | 114.7%           | 1.2%  |
| Tetrachloroethene-µg/L    |      | 0306857-01 | 0                | 75.0            | 55.0           | 73.3%            | 5.6%  |
| Trichloroethene-µg/L      |      | 0306857-01 | 0                | 75.0            | 53.0           | 70.7%            | 3.7%  |
| Vinyl chloride-µg/L       |      | 0306857-01 | 0                | 75.0            | 83.0           | 110.7%           | 4.9%  |
| <b>SRM</b>                | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| Chlorobenzene-µg/L        |      | 0006111-05 |                  | 50.0            | 44.1           | 88.2%            |       |
| 1,1-Dichloroethene-µg/L   |      | 0006111-05 |                  | 50.0            | 70.7           | 141.4%           |       |



# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

1005 TNRCC Rev 03

Order#: G0306857

|                     |      |            |                     |                    |                   |                     |      |
|---------------------|------|------------|---------------------|--------------------|-------------------|---------------------|------|
| <b>BLANK</b>        | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| TOTAL, C6-C35-mg/kg |      | 0006029-02 |                     |                    | <25.0             |                     |      |
| <b>CONTROL</b>      | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| TOTAL, C6-C35-mg/kg |      | 0006029-03 |                     | 952                | 993               | 104.3%              |      |
| <b>CONTROL DUP</b>  | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| TOTAL, C6-C35-mg/kg |      | 0006029-04 |                     | 952                | 965               | 101.4%              | 2.9% |
| <b>SRM</b>          | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| TOTAL, C6-C35-mg/kg |      | 0006029-05 |                     | 1000               | 1080              | 108.0%              |      |

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306857

| <b>BLANK</b>       | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
|--------------------|------|------------|---------------------|--------------------|-------------------|---------------------|------|
| Benzene-mg/kg      |      | 0006053-02 |                     |                    | <0.025            |                     |      |
| Toluene-mg/kg      |      | 0006053-02 |                     |                    | <0.025            |                     |      |
| Ethylbenzene-mg/kg |      | 0006053-02 |                     |                    | <0.025            |                     |      |
| p/m-Xylene-mg/kg   |      | 0006053-02 |                     |                    | <0.025            |                     |      |
| o-Xylene-mg/kg     |      | 0006053-02 |                     |                    | <0.025            |                     |      |
| <b>MS</b>          | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Benzene-mg/kg      |      | 0306868-01 | 0                   | 0.1                | 0.095             | 95.%                |      |
| Toluene-mg/kg      |      | 0306868-01 | 0                   | 0.1                | 0.095             | 95.%                |      |
| Ethylbenzene-mg/kg |      | 0306868-01 | 0                   | 0.1                | 0.096             | 96.%                |      |
| p/m-Xylene-mg/kg   |      | 0306868-01 | 0                   | 0.2                | 0.198             | 99.%                |      |
| o-Xylene-mg/kg     |      | 0306868-01 | 0                   | 0.1                | 0.097             | 97.%                |      |
| <b>MSD</b>         | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Benzene-mg/kg      |      | 0306868-01 | 0                   | 0.1                | 0.090             | 90.%                | 5.4% |
| Toluene-mg/kg      |      | 0306868-01 | 0                   | 0.1                | 0.091             | 91.%                | 4.3% |
| Ethylbenzene-mg/kg |      | 0306868-01 | 0                   | 0.1                | 0.092             | 92.%                | 4.3% |
| p/m-Xylene-mg/kg   |      | 0306868-01 | 0                   | 0.2                | 0.188             | 94.%                | 5.2% |
| o-Xylene-mg/kg     |      | 0306868-01 | 0                   | 0.1                | 0.092             | 92.%                | 5.3% |
| <b>SRM</b>         | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Benzene-mg/kg      |      | 0006053-05 |                     | 0.1                | 0.092             | 92.%                |      |
| Toluene-mg/kg      |      | 0006053-05 |                     | 0.1                | 0.093             | 93.%                |      |
| Ethylbenzene-mg/kg |      | 0006053-05 |                     | 0.1                | 0.094             | 94.%                |      |
| p/m-Xylene-mg/kg   |      | 0006053-05 |                     | 0.2                | 0.193             | 96.5%               |      |
| o-Xylene-mg/kg     |      | 0006053-05 |                     | 0.1                | 0.094             | 94.%                |      |

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### METALS RCRA 7 TCLP

Order#: G0306857

| <b>BLANK</b>       | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
|--------------------|------|------------|---------------------|--------------------|-------------------|---------------------|------|
| Arsenic-mg/L       |      | 0006091-02 |                     |                    | <0.008            |                     |      |
| Barium-mg/L        |      | 0006091-02 |                     |                    | <0.001            |                     |      |
| Cadmium-mg/L       |      | 0006091-02 |                     |                    | <0.001            |                     |      |
| Chromium-mg/L      |      | 0006091-02 |                     |                    | <0.002            |                     |      |
| Lead-mg/L          |      | 0006091-02 |                     |                    | <0.011            |                     |      |
| Selenium-mg/L      |      | 0006091-02 |                     |                    | <0.004            |                     |      |
| Silver-mg/L        |      | 0006091-02 |                     |                    | <0.002            |                     |      |
| <b>CONTROL</b>     | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Arsenic-mg/L       |      | 0006091-03 |                     | 0.8                | 0.694             | 86.7%               |      |
| Barium-mg/L        |      | 0006091-03 |                     | 0.2                | 0.201             | 100.5%              |      |
| Cadmium-mg/L       |      | 0006091-03 |                     | 0.2                | 0.177             | 88.5%               |      |
| Chromium-mg/L      |      | 0006091-03 |                     | 0.2                | 0.193             | 96.5%               |      |
| Lead-mg/L          |      | 0006091-03 |                     | 1                  | 0.983             | 98.3%               |      |
| Selenium-mg/L      |      | 0006091-03 |                     | 0.4                | 0.325             | 81.3%               |      |
| Silver-mg/L        |      | 0006091-03 |                     | 0.1                | 0.093             | 93.%                |      |
| <b>CONTROL DUP</b> | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Arsenic-mg/L       |      | 0006091-04 |                     | 0.8                | 0.690             | 86.2%               | 0.6% |
| Barium-mg/L        |      | 0006091-04 |                     | 0.2                | 0.203             | 101.5%              | 1.%  |
| Cadmium-mg/L       |      | 0006091-04 |                     | 0.2                | 0.176             | 88.%                | 0.6% |
| Chromium-mg/L      |      | 0006091-04 |                     | 0.2                | 0.193             | 96.5%               | 0.%  |
| Lead-mg/L          |      | 0006091-04 |                     | 1                  | 0.973             | 97.3%               | 1.%  |
| Selenium-mg/L      |      | 0006091-04 |                     | 0.4                | 0.328             | 82.%                | 0.9% |
| Silver-mg/L        |      | 0006091-04 |                     | 0.1                | 0.097             | 97.%                | 4.2% |
| <b>SRM</b>         | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Arsenic-mg/L       |      | 0006091-05 |                     | 1                  | 1.00              | 100.%               |      |
| Barium-mg/L        |      | 0006091-05 |                     | 1                  | 1.01              | 101.%               |      |
| Cadmium-mg/L       |      | 0006091-05 |                     | 1                  | 0.996             | 99.6%               |      |
| Chromium-mg/L      |      | 0006091-05 |                     | 1                  | 0.995             | 99.5%               |      |
| Lead-mg/L          |      | 0006091-05 |                     | 1                  | 1.00              | 100.%               |      |
| Selenium-mg/L      |      | 0006091-05 |                     | 1                  | 1.00              | 100.%               |      |
| Silver-mg/L        |      | 0006091-05 |                     | 0.5                | 0.497             | 99.4%               |      |

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

RCI

Order#: G0306857

|                        |      |            |                     |                    |                   |                     |      |
|------------------------|------|------------|---------------------|--------------------|-------------------|---------------------|------|
| <b>BLANK</b>           | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| pH-pH Units            |      | 0006046-01 |                     |                    | 7.00              |                     |      |
| Reactive Cyanide-mg/kg |      | 0006089-01 |                     |                    | <0.09             |                     |      |
| Reactive Sulfide-mg/kg |      | 0006090-01 |                     |                    | <5.00             |                     |      |
| <b>CONTROL</b>         | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Reactive Cyanide-mg/kg |      | 0006089-02 |                     | 0.1                | 0.093             | 93.0%               |      |
| Reactive Sulfide-mg/kg |      | 0006090-02 |                     | 22.2               | 20.6              | 92.8%               |      |
| <b>CONTROL DUP</b>     | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Reactive Cyanide-mg/kg |      | 0006089-03 |                     | 0.1                | 0.090             | 90.0%               | 3.3% |
| Reactive Sulfide-mg/kg |      | 0006090-03 |                     | 22.2               | 20.9              | 94.1%               | 1.4% |
| <b>DUPLICATE</b>       | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Ignitability-C         |      | 0306857-01 | 0                   |                    | >100              |                     | 0.0% |
| pH-pH Units            |      | 0306857-01 | 7.94                |                    | 7.99              |                     | 0.6% |
| Reactive Cyanide-mg/kg |      | 0306889-01 | 0                   |                    | <0.09             |                     | 0.0% |
| Reactive Sulfide-mg/kg |      | 0306889-01 | 0                   |                    | <5.00             |                     | 0.0% |
| <b>SRM</b>             | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| pH-pH Units            |      | 0006046-04 |                     | 7                  | 7.04              | 100.6%              |      |
| Reactive Cyanide-mg/kg |      | 0006089-04 |                     | 1                  | 1.10              | 110.0%              |      |
| Reactive Sulfide-mg/kg |      | 0006090-04 |                     | 680                | 639               | 94.0%               |      |

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### Test Parameters

Order#: G0306857

|                    |      |            |                     |                    |                   |                     |      |
|--------------------|------|------------|---------------------|--------------------|-------------------|---------------------|------|
| <b>BLANK</b>       | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |      | 0006092-01 |                     |                    | <0.0005           |                     |      |
| <b>CONTROL</b>     | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |      | 0006092-02 |                     | 0.001              | 0.00098           | 98.%                |      |
| <b>CONTROL DUP</b> | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |      | 0006092-03 |                     | 0.001              | 0.00095           | 95.%                | 3.1% |
| <b>SRM</b>         | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |      | 0006092-04 |                     | 0.001              | 0.00098           | 98.%                |      |

# CASE NARRATIVE

## ENVIRONMENTAL LAB OF TEXAS

**Prepared for:**

Plains All American Pipeline, LP  
P.O. Box 3371  
Midland, TX 79702

**Order#:** G0306857

**Project:** Andrews South

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

| SAMPLE ID | LAB ID     | MATRIX | Date Collected | Date Received |
|-----------|------------|--------|----------------|---------------|
| WC#1      | 0306857-01 | SOIL   | 06/27/2003     | 06/27/2003    |

Surrogate recoveries on the 8021B BTEX are outside control limits due to matrix interference.  
(0306857-01) 1,2 Dichloroethane-d4 and 2-fluorophenol outside control limits due to matrix interferences.

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: Reland K. JuD Date: 7-09-03  
Environmental Lab of Texas I, Ltd.

## Environmental Lab of Texas

12600 West I-20 East  
Odessa, Texas 79763

Phone: 432-563-1800  
Fax: 432-563-1713

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

### Project Manager:

Wagdy Robert S

**Project Name:**

Andrew South

**Company Name**

# Plains All American

**Project #:**

BWC Job # 1128

**Company Address:**

SHILAND

**Project Location:**

Appendix 1

City/State/Zip:

**Talophoro No:**

Fax No:

**Sampler Signature:**

George B. Smith

BNC SERVICES → 686-0086 ext. 557-1636 Cell

[illegible]

District I - (505) 393-6161  
Box 1980  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
311 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV - (505) 827-7131

New Mexico  
Energy Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

Form C-  
Originated 8

Submit Or.  
Plus 1  
to approp.  
District C

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4. Generator Navajo Refining         |
| Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5. Originating Site Artesia facility |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter Lea Land              |
| 3. Address of Facility Operator P.O. Box 388 Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8. State New Mexico                  |
| 7. Location of Material (Street Address or ULSTR) 501 E Main Artesia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | New Mexico                           |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                      |

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Navajo Refining Artesia facility. The material was generated by spill cleanups at the Navajo Artesia facility. I have included a certificate of waste and a chain of custody.

07-005

Estimated Volume 80 yards cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Billie Charo TITLE: Environ. Copliance Manager DATE: 07/15/98  
Waste Management Facility Authorized Agent  
TYPE OR PRINT NAME: Billie Charo TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



District I - (505) 393-6161  
P.O. Box 1980  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
111 S. Elm  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV - (505) 827-7131

New Mexico  
Energy Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

Form C-1  
Original 2/8  
Submit Orig  
Plan 1 C  
to appropriate  
District Of

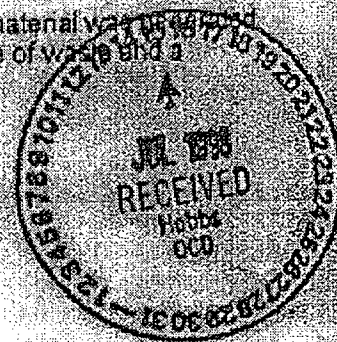
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. RCRA Exempt <input type="checkbox"/> Non-Exempt <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4. Generator Navajo Refining         |
| Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5. Originating Site Artesia facility |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter Los Land              |
| 3. Address of Facility Operator P.O. Box 388 Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8. State New Mexico                  |
| 7. Location of Material (Street Address or ULSTR) 501 E Main Artesia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | New Mexico                           |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                      |

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Navajo Refining Artesia facility. The material was used for spill cleanups at the Navajo Artesia facility. I have included a certificate of waste and a chain of custody.

07-005



Estimated Volume 80 yards cy Known Volume (as reported by the operator at the end of the haul) cy

SIGNATURE Billie Charo TITLE Environ. Compliance Manager DATE 07/15/98  
Waste Management Facility Authorized Agent  
TYPE OR PRINT NAME Billie Charo TELEPHONE NO. (505) 393-1079

(This space for State Use)  
APPROVED BY [Signature] TITLE Environ. Mgr DATE 7/15/98  
APPROVED BY [Signature] TITLE Bureau Chief DATE 7/15/98

8241-1980  
(505) 748-1283  
First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV - (505) 827-7131

NEW MEXICO  
Energy Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

RECEIVED

JAN 11 1999

Environmental Bureau  
Oil Conservation Division

Submit C  
Plus  
to app  
District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                     | 4. Generator <u>Navajo Refining</u>                     |
| Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                           | 5. Originating Site <u>Artesia</u>                      |
| 2. Management Facility Destination <u>Controlled Recovery, Inc.</u>                                                                                                                                                                                                                                                                                                                                                                                          | 6. Transporter <u>Stevenson &amp; Le</u><br><u>Land</u> |
| 3. Address of Facility Operator <u>p. O. Box 388 Hobbs</u>                                                                                                                                                                                                                                                                                                                                                                                                   | 8. State <u>NM</u>                                      |
| 7. Location of Material (Street Address or ULSTR) <u>510 E. Main</u>                                                                                                                                                                                                                                                                                                                                                                                         | <u>Artesia, NM</u>                                      |
| 9. <u>Circle One:</u><br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. |                                                         |
| All transporters must certify the wastes delivered are only those consigned for transport.                                                                                                                                                                                                                                                                                                                                                                   |                                                         |

BRIEF DESCRIPTION OF MATERIAL:

Crude contaminated soil and catalyst. I have included waste analysis, certificate of waste and chain of custody.

12-006

*called  
& notified  
Bryan 1/21/99  
10:00*

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: *Ken Marsh* TITLE: Manager DATE: 1-5-99

Waste Management Facility Authorized Agent  
TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: *Morty J. Kelly* TITLE: Env. Geologist DATE: 1-11-99

Energy Minerals and Natural Resources Department  
District II - (505) 748-1283  
811 S. 1st  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV - (505) 827-7131

Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

RECEIVED

JUL 0 1999

Environmental Bureau  
Oil Conservation Division

Original: 8/1  
Submit Original  
Plus 1 Copy  
to appropriate  
District Office

### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4. Generator <b>Navajo Refining</b>         |
| Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5. Originating Site <b>Artesia Facility</b> |
| 2. Management Facility Destination <b>Controlled Recovery, Inc.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6. Transporter <b>Lea Land, Inc.</b>        |
| 3. Address of Facility Operator P. O. Box 388, Hobbs,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8. State <b>NM</b>                          |
| 7. Location of Material (Street Address or ULSTR) <b>5-1 E Main, Artesia, NM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                             |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br><br>All transporters must certify the wastes delivered are only those consigned for transport. |                                             |

#### BRIEF DESCRIPTION OF MATERIAL:

Solids and debris caught in sewer inserts. See attached analytical, Certificate of Waste Status, Chain of Custody and NMED Hazardous and Radioactive Materials Bureau letter.

06-005

Estimated Volume 20 - 55 gal. drums cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 6-30-99  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 7-2-99

APPROVED BY: Monty J. King TITLE: Environmental Geologist DATE: 7-12-99



P.O. Box 1980  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV - (505) 837-7131

NEW MEXICO  
Energy Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

Form 1  
Originate

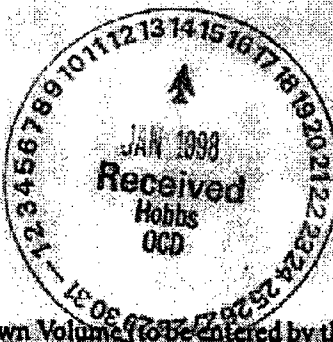
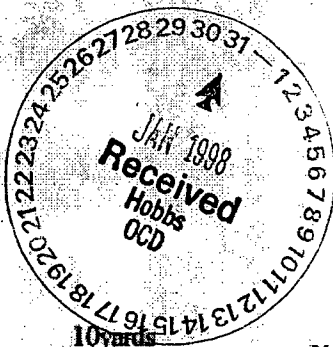
Submit  
Plus  
to app  
District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4. Generator Navajo Refining         |
| Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5. Originating Site Artesia Facility |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6. Transporter Unknown               |
| 3. Address of Facility Operator P.O. Box 369 Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8. State New Mexico                  |
| 7. Location of Material (Street Address or ULSTR) 501 East Main                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Artesia, New Mexico                  |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from t<br>Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis<br>PROVE the material is not hazardous and the Generator's certification of origin. No waste classified hazardous<br>listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                      |

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Navajo Refining Artesia facility. The petroleum refining - hydrocarbon contaminated soil was generated by cleanup of spills to the bare ground during a turn around. I have included a certificate of waste and a chain of custody.



Estimated Volume 10 yards cy Known Volume (to be entered by the operator at the end of the haul)

SIGNATURE: Billie Charo TITLE: Office Manager DATE: 01/13/98  
TYPE OR PRINT NAME: Billie Charo TELEPHONE NO. (505) 393-1079

(This space for State Use)  
APPROVED BY: [Signature] TITLE: Env Engn DATE: 1/16/98  
APPROVED BY: [Signature] TITLE: Env Geologist DATE: 1/27/98

District I  
1622 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

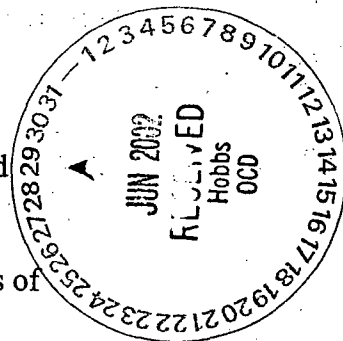
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                  | 4. Generator Navajo Refining Co.     |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site El Paso Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6. Transporter BES or CRI            |
| 7. Location of Material (Street Address or ULSTR) 1000 East Side Dr. El Paso                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8. State New Mexico                  |
| Texas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                      |

BRIEF DESCRIPTION OF MATERIAL:

06-28-02

Rust/Scale generated from cleaning tanks for maintenance and inspection. Rust and scale is from inside the tanks.

Enclosed is certificate of waste status, analytical data, chain of custody, and process of knowledge letter. This waste stream has been approved in the past.



Estimated Volume appx. 60 yards cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Carmella Van Maanen TITLE: Bookkeeper DATE: 06-28-02  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1701 W. Grand Avenue, Artesia, NM 88210  
District III  
3400 Rio Grande Road, Aztec, NM 87410  
District IV  
1220 N. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-138  
Revised March 11, 1999

Submit Original  
Plus 3 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br>Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                           | 4. Generator Navajo Refining Co.     |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site El Paso Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6. Transporter RES or CRI            |
| 7. Location of Material (Street Address or ULSR) 1008 East Side Dr. El Paso                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8. State New Mexico                  |
| Texas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                      |

BRIEF DESCRIPTION OF MATERIAL

06-28-02

Rust/Scale generated from cleaning tanks for maintenance and inspection. Rust and scale is from inside the tanks.

Enclosed is certificate of waste status, analytical data, chain of custody, and process of knowledge letter. This waste stream has been approved in the past.

Estimated Volume: apps. 500 yards or Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_

SIGNATURE Carmella Van Maanen TITLE: Bookkeeper DATE: 06-28-02  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO: (505) 393-1079

|                                 |                                       |                      |
|---------------------------------|---------------------------------------|----------------------|
| (This space for State Use)      |                                       |                      |
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>State Geologist</u>         | DATE: <u>6/28/02</u> |
| APPROVED BY: <u>[Signature]</u> | TITLE: <u>Environmental Geologist</u> | DATE: <u>7/16/02</u> |

Form 1 (0-505) 393-0101  
P.O. Box 1980  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
311 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV - (505) 827-7131

NEW MEXICO  
Energy Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

RECEIVED

AUG 10 2000  
Environmental Bureau  
Oil Conservation Division

Form 1  
Originate  
Submit  
Plus  
to app  
District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4. Generator Navajo Refining         |
| Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5. Originating Site Artesia Facility |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6. Transporter BES                   |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8. State New Mexico                  |
| 7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | New Mexico                           |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                      |

BRIEF DESCRIPTION OF MATERIAL:

08-004

FCC Catalyst Fines.

These are fine particles from catalyst collected in the cyclones at the FCC Unit during the regeneration process.

I am enclosing Certificate of Waste status and copy of previous C-138.  
This waste has been approved in the past.

Estimated Volume 30 Supersacks cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy  
SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 08-03-00  
Waste Management Facility Authorized Agent  
TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 8-8-00  
APPROVED BY: Matthews TITLE: Environmental Geologist DATE: 8-10-00

Table Prepared by New Mexico Oil Conservation Division on 06/04/03

[illegible]



Table Prepared by New Mexico Oil Conservation Division on 06/04/03

---

[illegible]

Table Prepared by New Mexico Oil Conservation Division on 06/04/03

[illegible]



4

**C-138 on file with OCD Santa Fe Office**  
**Disposal Facility : Controlled Recovery Inc.**  
**Generator: Compressor Components**

Table Prepared by New Mexico Oil Conservation Division on 06/04/03

[illegible]



C-138 on file with OCD Santa Fe Office

Table Prepared by New Mexico Oil Conservation Division on 06/04/03

Disposal Facility : Controlled Recovery Inc.

Generator: Conoco Phillips

| Date     | Conoco Phillips Location  | CRI ID Number | Estimated Volume          | Waste Description                                                                                   | Transporter     |
|----------|---------------------------|---------------|---------------------------|-----------------------------------------------------------------------------------------------------|-----------------|
| 05/28/03 | CR 4000 South SJ32-7 #222 |               | .5 cy                     | Oil stained road dirt of an unknown source.                                                         | TBA             |
| 02/05/03 | Majamar gas plant         | 02.02.03      | 3 drums                   | waste air drier desiccant                                                                           | Conoco/Phillips |
|          |                           |               |                           |                                                                                                     |                 |
| 06/10/02 | Zia Gas Plant             | 06.03.02      | 4 cy                      | Non-exempt and exempt oil contaminated dirt - from oil spill.                                       |                 |
| 05/03/02 | Hobbs, NM                 | 05.20.02      | 18 cy                     | Oil spill - from engine compressor and plant operations.                                            |                 |
| 03/25/02 | Zia Gas Plant             | 3.14.2002     | 650 bbis                  | Spent Caustic solution neutralized with acid generated through the natural gas processing facility. |                 |
|          |                           |               |                           |                                                                                                     |                 |
| 11/05/01 | Zia Compressor            | 10.22.01Z     | 750 gal through 10/31/02  | Waste water - from engine wash water, rain water runoff, and lube oil leaked from compressor.       | Hughes/Steve Ca |
| 11/05/01 | Pure Gold Compressor      | 10.22.01Y     | 1000 gal through 10/31/02 | Used lube oil - from engine and compressor operations.                                              | Hughes/Steve Ca |
| 11/19/03 | Anderson Ranch compressor | 10.22.01X     | 250 gal through 10/31/02  | Used lube oil - from engine and compressor operations for recycling at treating plant               |                 |
| 11/19/01 | NE Carlsbad Compressor    | 10.22.01W     | 1000 gal through 10/31/02 | Used lube oil - from engine and compressor operations for recycling at treating plant               | Hughes/Steve Ca |
| 11/19/01 | Cotton Draw Compressor    | 10.22.01V     | 500 gal through 10/31/02  | Used lube oil - from engine and compressor operations for recycling at treating plant               | Hughes/Steve Ca |
| 11/19/01 | Kennilz Compressor        | 10.22.01U     | 1000 gal through 10/31/02 | Used lube oil - from engine and compressor operations for recycling at treating plant               | Hughes/Steve Ca |
| 11/05/01 | Ramsey Compressor         | 10.22.01T     | 500 gal through 10/31/02  | Used lube oil - from engine and compressor operations.                                              | Hughes/Steve Ca |
| 11/19/01 | Calmon CVRU Compressor    | 10.22.01S     | 50 gal through 10/31/02   | Used lube oil - from engine and compressor operations for recycling at treating plant               | Hughes/Steve Ca |
| 11/05/01 | Malaga                    | 10.22.01R     | 350 gal through 10/31/02  | Used lube oil - from engine and compressor operations.                                              | Hughes/Steve Ca |
| 11/19/01 | Calmon Compressor         | 10.22.01Q     | 1000 gal through 10/31/02 | Used lube oil - from engine and compressor operations for recycling at treating plant               | Hughes/Steve Ca |
| 11/19/01 | Cabin Lake                | 10.22.01P     | 500 gal through 10/31/02  | Used lube oil - from engine and compressor operations for recycling at treating plant               | Hughes/Steve Ca |
| 11/05/01 | Ramsey Compressor         | 10.22.01O     | 1000 gal through 10/31/02 | Waste water - from engine wash water, rain water runoff, and lube oil leaked from compressor.       | Hughes/Steve Ca |
| 11/05/01 | Read & Stevens Compressor | 10.22.01N     | 500 gal through 10/31/02  | Waste water - from engine wash water, rain water runoff, and lube oil leaked from compressor.       | Hughes/Steve Ca |
| 11/05/01 | Apex Compressor           | 10.22.01M     | 3000 gal through 10/31/02 | Waste water - from engine wash water, rain water runoff, and lube oil leaked from compressor.       | Hughes/Steve Ca |
| 11/05/01 | Lusk Compressor           | 10.22.01L     | 750 gal through 10/31/02  | Waste water - from engine wash water, rain water runoff, and lube oil leaked from compressor.       | Hughes/Steve Ca |
| 11/05/01 | Skelly Compressor         | 10.22.01K     | 1500 gal through 10/31/02 | Waste water - from engine wash water, rain water runoff, and lube oil leaked from compressor.       | Hughes/Steve Ca |
| 11/05/01 | West Turkey Track I       | 10.22.01J     | 1000 gal through 10/31/02 | Waste water - from engine wash water, rain water runoff, and lube oil leaked from compressor.       | Hughes/Steve Ca |
| 11/05/01 | West Turkey Track II      | 10.22.01I     | 1500 gal through 10/31/02 | Waste water - from engine wash water, rain water runoff, and lube oil leaked from compressor.       | Hughes/Steve Ca |
| 11/05/01 | Chavez Compressor         | 10.22.01H     | 750 gal through 10/31/02  | Waste water - from engine wash water, rain water runoff, and lube oil leaked from compressor.       | Hughes/Steve Ca |
| 11/05/01 | Gamma Ridge #1            | 10.22.01G     | 400 gal through 10/31/02  | Waste water - from engine wash water, rain water runoff, and lube oil leaked from compressor.       | Hughes/Steve Ca |
| 11/05/01 | Gamma Ridge #2            | 10.22.01F     | 300 bbis through 10/31/02 | Waste water - from engine wash water, rain water runoff, and lube oil leaked from compressor.       | Hughes/Steve Ca |
| 11/05/01 | Turkey Track (TT)         | 10.22.01E     | 300 bbis through 10/31/02 | Waste water - from engine wash water, rain water runoff, and lube oil leaked from compressor.       | Hughes/Steve Ca |



Table Prepared by New Mexico Oil Conservation Division on 06/04/03

[illegible]





Table Prepared by New Mexico Oil Conservation Division on 06/04/03

Downloaded from <http://ajph.org/> on November 10, 2014

[illegible]

Table Prepared by New Mexico Oil Conservation Division on 06/04/03

[illegible]

Table Prepared by New Mexico Oil Conservation Division on 06/04/03

[illegible]



Table Prepared by New Mexico Oil Conservation Division on 06/04/03

\_\_\_\_\_

[illegible]



Table Prepared by New Mexico Oil Conservation Division on 06/04/03

[illegible]



Table Prepared by New Mexico Oil Conservation Division on 06/04/03

---

[illegible]



Table Prepared by New Mexico Oil Conservation Division on 06/04/03

[illegible]

**Table Prepared by New Mexico Oil Conservation Division on 06/04/03**

---

[illegible]

Table Prepared by New Mexico Oil Conservation Division on 06/04/03

### Waste Description

[illegible]





Table Prepared by New Mexico Oil Conservation Division on 06/04/03

---

[illegible]



Table Prepared by New Mexico Oil Conservation Division on 06/04/03

---

[illegible]

Table Prepared by New Mexico Oil Conservation Division on 06/04/03

[illegible]







Table Prepared by New Mexico Oil Conservation Division on 06/04/03

[illegible]

Table Prepared by New Mexico Oil Conservation Division on 06/04/03

[illegible]

**C-138 on file with OCD Santa Fe Office**  
**Disposal Facility : Controlled Recovery Inc.**  
**Generator: R & R Service Company**

Table Prepared by New Mexico Oil Conservation Division on 06/04/03

[illegible]





Table Prepared by New Mexico Oil Conservation Division on 06/04/03

[illegible]

Table Prepared by New Mexico Oil Conservation Division on 06/04/03

**Generator: Shell Pipeline Company**

[illegible]

[illegible]

[illegible]

Table Prepared by New Mexico Oil Conservation Division on 06/04/03

### Waste Description

[illegible]

[illegible]

Table Prepared by New Mexico Oil Conservation Division on 06/04/03

Table Prepared by New Mexico Oil Conservation Division on 06/04/03

Table Prepared by New Mexico Oil Conservation Division on 06/04/03



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87001  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

AUG 01 2003

State of New Mexico  
Energy Minerals and Natural Resources  
Environmental Bureau  
Oil Conservation Division  
Conservation Division  
220 South St. Francis Dr.  
Santa Fe, NM 87505

AUG 1 2003

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

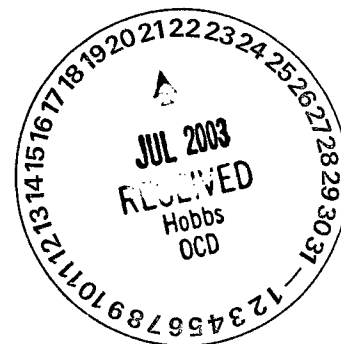
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                           | 4. Generator Navajo Refining                    |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5. Originating Site Artesia, NM                 |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6. Transporter D & J Waste or Jim Wilson Const. |
| 7. Location of Material (Street Address or ULSTR) 501 East Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8. State New Mexico                             |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                 |

### BRIEF DESCRIPTION OF MATERIAL:

RE: 07-22-03A

Contaminated Soil.

Attached is Non-Exempt waste form and Analytical results.



Estimated Volume 350 yards Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers  
Waste Management Facility Authorized Agent

TITLE: Clerical DATE: 07-22-03

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

1-202260

(This space for State Use)

APPROVED BY: [Signature]

TITLE: Envirom Engle

DATE: 7/29/03

APPROVED BY: [Signature]

TITLE: Environmental Geologist

DATE: 7/22/03

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Contaminated soil

ESTIMATED VOLUME: 350 yards

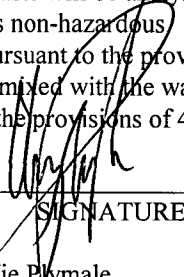
GENERATING PROCESS: Contaminated soil removed for building of a concrete foundation for a new tank for our slurry oil near our Carbon Black Oil loading rack.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: D and J Waste, or Jim Wilson Const.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: 

SIGNATURE

NAME: Charlie Plymale

PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 7/21/03

## Summary Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: July 8, 2003

Work Order: 3062419

Project Name: TCLP

| Sample | Description     | Matrix | Date Taken | Time Taken | Date Received |
|--------|-----------------|--------|------------|------------|---------------|
| 11153  | New Slurry Tank | soil   | 2003-06-17 | 11:00      | 2003-06-18    |
| 11154  | Gas Rack 1      | soil   | 2003-06-17 | 11:30      | 2003-06-18    |
| 11155  | Gas Rack 2      | soil   | 2003-06-17 | 11:40      | 2003-06-18    |

### Sample: 11153 - New Slurry Tank

| Param                                | Flag | Result        | Units | RL     |
|--------------------------------------|------|---------------|-------|--------|
| Reactivity                           |      | non-reactive  |       | 0.00   |
| Hydrogen Sulfide                     |      | <10.0         | mg/Kg | 10.0   |
| Hydrogen Cyanide                     |      | <2.50         | mg/Kg | 2.50   |
| Corrosivity                          |      | non-corrosive | mm/yr | 0.00   |
| pH                                   |      | 8.10          | s.u.  | 0.00   |
| Ignitability                         |      | non-ignitable |       | 0.00   |
| Pyridine                             |      | <0.0500       | mg/L  | 10.0   |
| 1,4-Dichlorobenzene (para)           |      | <0.0500       | mg/L  | 10.0   |
| o-Cresol                             |      | <0.0500       | mg/L  | 10.0   |
| m,p-Cresol                           |      | <0.0500       | mg/L  | 10.0   |
| Hexachloroethane                     |      | <0.0500       | mg/L  | 10.0   |
| Nitrobenzene                         |      | <0.0500       | mg/L  | 10.0   |
| Hexachlorobutadiene                  |      | <0.0500       | mg/L  | 10.0   |
| 2,4,6-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0   |
| 2,4,5-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0   |
| 2,4-Dinitrotoluene                   |      | <0.0500       | mg/L  | 10.0   |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500       | mg/L  | 10.0   |
| Hexachlorobenzene                    |      | <0.0500       | mg/L  | 10.0   |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500       | mg/L  | 10.0   |
| Pentachlorophenol                    |      | <0.0500       | mg/L  | 10.0   |
| TCLP Silver                          |      | <0.125        | mg/L  | 0.125  |
| TCLP Arsenic                         |      | 0.313         | mg/L  | 0.100  |
| TCLP Barium                          |      | 2.12          | mg/L  | 0.100  |
| TCLP Cadmium                         |      | <0.0500       | mg/L  | 0.0500 |
| TCLP Chromium                        |      | <0.100        | mg/L  | 0.100  |
| TCLP Mercury                         |      | <0.0100       | mg/L  | 0.0100 |
| TCLP Lead                            |      | 0.652         | mg/L  | 0.0370 |
| TCLP Selenium                        |      | <0.500        | mg/L  | 0.500  |

*continued ...*

*sample 11153 continued ...*

| Param                      | Flag | Result  | Units | RL      |
|----------------------------|------|---------|-------|---------|
| Vinyl Chloride             |      | <0.0500 | mg/L  | 0.00100 |
| 1,1-Dichloroethene         |      | <0.0500 | mg/L  | 0.00100 |
| 2-Butanone (MEK)           |      | <0.500  | mg/L  | 0.0100  |
| Chloroform                 |      | <0.0500 | mg/L  | 0.00100 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500 | mg/L  | 0.00100 |
| Benzene                    |      | <0.0500 | mg/L  | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500 | mg/L  | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500 | mg/L  | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500 | mg/L  | 0.00100 |
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.00100 |

**Sample: 11154 - Gas Rack 1**

| Param                                | Flag | Result        | Units | RL      |
|--------------------------------------|------|---------------|-------|---------|
| Reactivity                           |      | non-reactive  |       | 0.00    |
| Hydrogen Sulfide                     |      | <10.0         | mg/Kg | 10.0    |
| Hydrogen Cyanide                     |      | <2.50         | mg/Kg | 2.50    |
| Corrosivity                          |      | non-corrosive | mm/yr | 0.00    |
| pH                                   |      | 6.10          | s.u.  | 0.00    |
| Ignitability                         |      | non-ignitable |       | 0.00    |
| Pyridine                             |      | <0.0500       | mg/L  | 10.0    |
| 1,4-Dichlorobenzene (para)           |      | <0.0500       | mg/L  | 10.0    |
| o-Cresol                             |      | <0.0500       | mg/L  | 10.0    |
| m,p-Cresol                           |      | <0.0500       | mg/L  | 10.0    |
| Hexachloroethane                     |      | <0.0500       | mg/L  | 10.0    |
| Nitrobenzene                         |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobutadiene                  |      | <0.0500       | mg/L  | 10.0    |
| 2,4,6-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dinitrotoluene                   |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dichlorophenoxyacetic acid       |      | <10.0         | mg/L  | 10.0    |
| Hexachlorobenzene                    |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenoxypropionic acid |      | <10.0         | mg/L  | 10.0    |
| Pentachlorophenol                    |      | <0.0500       | mg/L  | 10.0    |
| TCLP Silver                          |      | <0.125        | mg/L  | 0.125   |
| TCLP Arsenic                         |      | 0.237         | mg/L  | 0.100   |
| TCLP Barium                          |      | 3.35          | mg/L  | 0.100   |
| TCLP Cadmium                         |      | <0.0500       | mg/L  | 0.0500  |
| TCLP Chromium                        |      | <0.100        | mg/L  | 0.100   |
| TCLP Mercury                         |      | <0.0100       | mg/L  | 0.0100  |
| TCLP Lead                            |      | 0.0950        | mg/L  | 0.0370  |
| TCLP Selenium                        |      | 0.577         | mg/L  | 0.500   |
| Vinyl Chloride                       |      | <0.0500       | mg/L  | 0.00100 |
| 1,1-Dichloroethene                   |      | <0.0500       | mg/L  | 0.00100 |
| 2-Butanone (MEK)                     |      | <0.500        | mg/L  | 0.0100  |
| Chloroform                           |      | <0.0500       | mg/L  | 0.00100 |
| 1,2-Dichloroethane (EDC)             |      | <0.0500       | mg/L  | 0.00100 |
| Benzene                              |      | <0.0500       | mg/L  | 0.00100 |
| Carbon Tetrachloride                 |      | <0.0500       | mg/L  | 0.00100 |
| Trichloroethene (TCE)                |      | <0.0500       | mg/L  | 0.00100 |
| Tetrachloroethene (PCE)              |      | <0.0500       | mg/L  | 0.00100 |

*continued ...*

*sample 11154 continued ...*

| Param                      | Flag | Result  | Units | RL      |
|----------------------------|------|---------|-------|---------|
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.00100 |

**Sample: 11155 - Gas Rack 2**

| Param                                | Flag | Result        | Units | RL      |
|--------------------------------------|------|---------------|-------|---------|
| Reactivity                           |      | non-reactive  |       | 0.00    |
| Hydrogen Sulfide                     |      | <10.0         | mg/Kg | 10.0    |
| Hydrogen Cyanide                     |      | <2.50         | mg/Kg | 2.50    |
| Corrosivity                          |      | non-corrosive | mm/yr | 0.00    |
| pH                                   |      | 7.90          | s.u.  | 0.00    |
| Ignitability                         |      | non-ignitable |       | 0.00    |
| Pyridine                             |      | <0.0500       | mg/L  | 10.0    |
| 1,4-Dichlorobenzene (para)           |      | <0.0500       | mg/L  | 10.0    |
| o-Cresol                             |      | <0.0500       | mg/L  | 10.0    |
| m,p-Cresol                           |      | <0.0500       | mg/L  | 10.0    |
| Hexachloroethane                     |      | <0.0500       | mg/L  | 10.0    |
| Nitrobenzene                         |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobutadiene                  |      | <0.0500       | mg/L  | 10.0    |
| 2,4,6-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dinitrotoluene                   |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobenzene                    |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500       | mg/L  | 10.0    |
| Pentachlorophenol                    |      | <0.0500       | mg/L  | 10.0    |
| TCLP Silver                          |      | <0.125        | mg/L  | 0.125   |
| TCLP Arsenic                         |      | 0.461         | mg/L  | 0.100   |
| TCLP Barium                          |      | 2.63          | mg/L  | 0.100   |
| TCLP Cadmium                         |      | <0.0500       | mg/L  | 0.0500  |
| TCLP Chromium                        |      | <0.100        | mg/L  | 0.100   |
| TCLP Mercury                         |      | <0.0100       | mg/L  | 0.0100  |
| TCLP Lead                            |      | 0.0920        | mg/L  | 0.0370  |
| TCLP Selenium                        |      | 0.916         | mg/L  | 0.500   |
| Vinyl Chloride                       |      | <0.0500       | mg/L  | 0.00100 |
| 1,1-Dichloroethene                   |      | <0.0500       | mg/L  | 0.00100 |
| 2-Butanone (MEK)                     |      | <0.500        | mg/L  | 0.0100  |
| Chloroform                           |      | <0.0500       | mg/L  | 0.00100 |
| 1,2-Dichloroethane (EDC)             |      | <0.0500       | mg/L  | 0.00100 |
| Benzene                              |      | 0.0600        | mg/L  | 0.00100 |
| Carbon Tetrachloride                 |      | <0.0500       | mg/L  | 0.00100 |
| Trichloroethene (TCE)                |      | <0.0500       | mg/L  | 0.00100 |
| Tetrachloroethene (PCE)              |      | <0.0500       | mg/L  | 0.00100 |
| Chlorobenzene                        |      | <0.0500       | mg/L  | 0.00100 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500       | mg/L  | 0.00100 |



6701 Aberdeen Avenue, Suite 9    Lubbock, Texas 79424    800•378•1296    806•794•1296    FAX 806•794•1298  
155 McCutcheon, Suite H    El Paso, Texas 79932    888•588•3443    915•585•3443    FAX 915•585•4944  
E-Mail: lab@traceanalysis.com

## Analytical and Quality Control Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: July 8, 2003

Work Order: 3062419

Project Name: TCLP  
Project Number: TCLP

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description     | Matrix | Date Taken | Time Taken | Date Received |
|--------|-----------------|--------|------------|------------|---------------|
| 11153  | New Slurry Tank | soil   | 2003-06-17 | 11:00      | 2003-06-18    |
| 11154  | Gas Rack 1      | soil   | 2003-06-17 | 11:30      | 2003-06-18    |
| 11155  | Gas Rack 2      | soil   | 2003-06-17 | 11:40      | 2003-06-18    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

## Analytical Report

### Sample: 11153 - New Slurry Tank

|                  |                                           |                  |
|------------------|-------------------------------------------|------------------|
| Analysis: RCI    | Analytical Method: ASTM D 5049-90/4978-95 | Prep Method: N/A |
| QC Batch: 2433   | Date Analyzed: 2003-06-24                 | Analyzed By: JH  |
| Prep Batch: 2202 | Date Prepared: 2003-06-24                 | Prepared By: JH  |
| Analysis: RCI    | Analytical Method: S 1110                 | Prep Method: N/A |
| Analysis: RCI    | Analytical Method: SW-846 Ch. 7.1         | Prep Method: N/A |

| Parameter        | Flag | RL<br>Result  | Units | Dilution | RL   |
|------------------|------|---------------|-------|----------|------|
| Reactivity       |      | non-reactive  |       | 1        | 0.00 |
| Hydrogen Sulfide |      | <10.0         | mg/Kg | 1        | 10.0 |
| Hydrogen Cyanide |      | <2.50         | mg/Kg | 1        | 2.50 |
| Corrosivity      |      | non-corrosive | mm/yr | 1        | 0.00 |
| pH               |      | 8.10          | s.u.  | 1        | 0.00 |
| Ignitability     |      | non-ignitable |       | 1        | 0.00 |

### Sample: 11153 - New Slurry Tank

|                              |                            |                        |
|------------------------------|----------------------------|------------------------|
| Analysis: TCLP Semivolatiles | Analytical Method: S 8270C | Prep Method: TCLP 1311 |
| QC Batch: 2766               | Date Analyzed: 2003-07-07  | Analyzed By: RC        |
| Prep Batch: 2510             | Date Prepared: 2003-07-03  | Prepared By: JH        |

| Parameter                            | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------------------------------|------|--------------|-------|----------|------|
| Pyridine                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| o-Cresol                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| m,p-Cresol                           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachloroethane                     |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Nitrobenzene                         |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobutadiene                  |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,6-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dinitrotoluene                   |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobenzene                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Pentachlorophenol                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |

| Surrogate            | Flag | Result  | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|----------------------|------|---------|-------|----------|-----------------|---------------------|--------------------|
| 2-Fluorophenol       | 1    | 0.0120  | mg/L  | 0.005    | 8.00            | 30                  | 2.83 - 110.33      |
| Phenol-d5            | 2    | 0.00840 | mg/L  | 0.005    | 8.00            | 21                  | 0 - 82.08          |
| Nitrobenzene-d5      | 3    | 0.0321  | mg/L  | 0.005    | 8.00            | 80                  | 26.72 - 155        |
| 2-Fluorobiphenyl     | 4    | 0.0248  | mg/L  | 0.005    | 8.00            | 62                  | 35.89 - 150.5      |
| 2,4,6-Tribromophenol | 5    | 0.0196  | mg/L  | 0.005    | 8.00            | 49                  | 0 - 204.91         |
| Terphenyl-d14        | 6    | 0.0180  | mg/L  | 0.005    | 8.00            | 45                  | 33.98 - 168.85     |

<sup>1</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>2</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>3</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>4</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>5</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>6</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

**Sample: 11153 - New Slurry Tank**

|                               |                            |                        |
|-------------------------------|----------------------------|------------------------|
| Analysis: TCLP Total 8 Metals | Analytical Method: S 6010B | Prep Method: TCLP 1311 |
| QC Batch: 2501                | Date Analyzed: 2003-06-26  | Analyzed By: RR        |
| Prep Batch: 2229              | Date Prepared: 2003-06-24  | Prepared By: TP        |
| Analysis: TCLP Total 8 Metals | Analytical Method: S 7470A | Prep Method: TCLP 1311 |
| QC Batch: 2532                | Date Analyzed: 2003-06-27  | Analyzed By: BC        |
| Prep Batch: 2301              | Date Prepared: 2003-06-26  | Prepared By: BC        |

| Parameter     | Flag | RL<br>Result | Units | Dilution | RL     |
|---------------|------|--------------|-------|----------|--------|
| TCLP Silver   |      | <0.125       | mg/L  | 1        | 0.125  |
| TCLP Arsenic  |      | 0.313        | mg/L  | 1        | 0.100  |
| TCLP Barium   |      | 2.12         | mg/L  | 1        | 0.100  |
| TCLP Cadmium  |      | <0.0500      | mg/L  | 1        | 0.0500 |
| TCLP Chromium |      | <0.100       | mg/L  | 1        | 0.100  |
| TCLP Mercury  |      | <0.0100      | mg/L  | 1        | 0.0100 |
| TCLP Lead     |      | 0.652        | mg/L  | 1        | 0.0370 |
| TCLP Selenium |      | <0.500       | mg/L  | 1        | 0.500  |

**Sample: 11153 - New Slurry Tank**

|                          |                            |                        |
|--------------------------|----------------------------|------------------------|
| Analysis: TCLP Volatiles | Analytical Method: S 8260B | Prep Method: TCLP 1311 |
| QC Batch: 2640           | Date Analyzed: 2003-07-01  | Analyzed By: JG        |
| Prep Batch: 2408         | Date Prepared: 2003-06-30  | Prepared By: JG        |

| Parameter                  | Flag | RL<br>Result | Units | Dilution | RL      |
|----------------------------|------|--------------|-------|----------|---------|
| Vinyl Chloride             |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,1-Dichloroethene         |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 2-Butanone (MEK)           |      | <0.500       | mg/L  | 50       | 0.0100  |
| Chloroform                 |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Benzene                    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Chlorobenzene              |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500      | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 50.6   | mg/L  | 1        | 50.0            | 101                 | 79 - 118           |
| Toluene-d8                   |      | 50.2   | mg/L  | 1        | 50.0            | 100                 | 86 - 114           |
| 4-Bromofluorobenzene (4-BFB) |      | 47.1   | mg/L  | 1        | 50.0            | 94                  | 79 - 116           |

**Sample: 11154 - Gas Rack 1**

|                  |                                           |                  |
|------------------|-------------------------------------------|------------------|
| Analysis: RCI    | Analytical Method: ASTM D 5049-90/4978-95 | Prep Method: N/A |
| QC Batch: 2433   | Date Analyzed: 2003-06-24                 | Analyzed By: JH  |
| Prep Batch: 2202 | Date Prepared: 2003-06-24                 | Prepared By: JH  |
| Analysis: RCI    | Analytical Method: S 1110                 | Prep Method: N/A |
| Analysis: RCI    | Analytical Method: SW-846 Ch. 7.1         | Prep Method: N/A |



| Parameter        | Flag | RL<br>Result  | Units | Dilution | RL   |
|------------------|------|---------------|-------|----------|------|
| Reactivity       |      | non-reactive  |       | 1        | 0.00 |
| Hydrogen Sulfide |      | <10.0         | mg/Kg | 1        | 10.0 |
| Hydrogen Cyanide |      | <2.50         | mg/Kg | 1        | 2.50 |
| Corrosivity      |      | non-corrosive | mm/yr | 1        | 0.00 |
| pH               |      | 6.10          | s.u.  | 1        | 0.00 |
| Ignitability     |      | non-ignitable |       | 1        | 0.00 |

Sample: 11154 - Gas Rack 1

Analysis: TCLP Semivolatiles  
QC Batch: 2766  
Prep Batch: 2510

Analytical Method: S 8270C  
Date Analyzed: 2003-07-07  
Date Prepared: 2003-07-03

Prep Method: TCLP 1311  
Analyzed By: RC  
Prepared By: JH

| Parameter                            | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------------------------------|------|--------------|-------|----------|------|
| Pyridine                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| o-Cresol                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| m,p-Cresol                           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachloroethane                     |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Nitrobenzene                         |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobutadiene                  |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,6-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dinitrotoluene                   |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dichlorophenoxyacetic acid       |      | <10.0        | mg/L  | 1        | 10.0 |
| Hexachlorobenzene                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <10.0        | mg/L  | 1        | 10.0 |
| Pentachlorophenol                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |

| Surrogate            | Flag | Result  | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|----------------------|------|---------|-------|----------|-----------------|---------------------|--------------------|
| 2-Fluorophenol       | 7    | 0.0128  | mg/L  | 0.005    | 8.00            | 32                  | 2.83 - 110.33      |
| Phenol-d5            | 8    | 0.00810 | mg/L  | 0.005    | 8.00            | 20                  | 0 - 82.08          |
| Nitrobenzene-d5      | 9    | 0.0436  | mg/L  | 0.005    | 8.00            | 109                 | 26.72 - 155        |
| 2-Fluorobiphenyl     | 10   | 0.0268  | mg/L  | 0.005    | 8.00            | 67                  | 35.89 - 150.5      |
| 2,4,6-Tribromophenol | 11   | 0.00180 | mg/L  | 0.005    | 8.00            | 4                   | 0 - 204.91         |
| Terphenyl-d14        | 12   | 0.0208  | mg/L  | 0.005    | 8.00            | 52                  | 33.98 - 168.85     |

Sample: 11154 - Gas Rack 1

Analysis: TCLP Total 8 Metals  
QC Batch: 2501  
Prep Batch: 2229  
Analysis: TCLP Total 8 Metals  
QC Batch: 2532  
Prep Batch: 2301

Analytical Method: S 6010B  
Date Analyzed: 2003-06-26  
Date Prepared: 2003-06-24  
Analytical Method: S 7470A  
Date Analyzed: 2003-06-27  
Date Prepared: 2003-06-26

Prep Method: TCLP 1311  
Analyzed By: RR  
Prepared By: TP  
Prep Method: TCLP 1311  
Analyzed By: BC  
Prepared By: BC

<sup>7</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>8</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>9</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>10</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>11</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>12</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

| Parameter     | Flag | RL<br>Result | Units | Dilution | RL     |
|---------------|------|--------------|-------|----------|--------|
| TCLP Silver   |      | <0.125       | mg/L  | 1        | 0.125  |
| TCLP Arsenic  |      | 0.237        | mg/L  | 1        | 0.100  |
| TCLP Barium   |      | 3.35         | mg/L  | 1        | 0.100  |
| TCLP Cadmium  |      | <0.0500      | mg/L  | 1        | 0.0500 |
| TCLP Chromium |      | <0.100       | mg/L  | 1        | 0.100  |
| TCLP Mercury  |      | <0.0100      | mg/L  | 1        | 0.0100 |
| TCLP Lead     |      | 0.0950       | mg/L  | 1        | 0.0370 |
| TCLP Selenium |      | 0.577        | mg/L  | 1        | 0.500  |

**Sample: 11154 - Gas Rack 1**

Analysis: TCLP Volatiles  
QC Batch: 2640  
Prep Batch: 2408

Analytical Method: S 8260B  
Date Analyzed: 2003-07-01  
Date Prepared: 2003-06-30

Prep Method: TCLP 1311  
Analyzed By: JG  
Prepared By: JG

| Parameter                  | Flag | RL<br>Result | Units | Dilution | RL      |
|----------------------------|------|--------------|-------|----------|---------|
| Vinyl Chloride             |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,1-Dichloroethene         |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 2-Butanone (MEK)           |      | <0.500       | mg/L  | 50       | 0.0100  |
| Chloroform                 |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Benzene                    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Chlorobenzene              |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500      | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 51.3   | mg/L  | 1        | 50.0            | 103                 | 79 - 118           |
| Toluene-d8                   |      | 49.2   | mg/L  | 1        | 50.0            | 98                  | 86 - 114           |
| 4-Bromofluorobenzene (4-BFB) |      | 47.1   | mg/L  | 1        | 50.0            | 94                  | 79 - 116           |

**Sample: 11155 - Gas Rack 2**

Analysis: RCI  
QC Batch: 2433  
Prep Batch: 2202  
Analysis: RCI  
Analysis: RCI

Analytical Method: ASTM D 5049-90/4978-95  
Date Analyzed: 2003-06-24  
Date Prepared: 2003-06-24  
Analytical Method: S 1110  
Analytical Method: SW-846 Ch. 7.1

Prep Method: N/A  
Analyzed By: JH  
Prepared By: JH  
Prep Method: N/A  
Prep Method: N/A

| Parameter        | Flag | RL<br>Result  | Units | Dilution | RL   |
|------------------|------|---------------|-------|----------|------|
| Reactivity       |      | non-reactive  |       | 1        | 0.00 |
| Hydrogen Sulfide |      | <10.0         | mg/Kg | 1        | 10.0 |
| Hydrogen Cyanide |      | <2.50         | mg/Kg | 1        | 2.50 |
| Corrosivity      |      | non-corrosive | mm/yr | 1        | 0.00 |
| pH               |      | 7.90          | s.u.  | 1        | 0.00 |
| Ignitability     |      | non-ignitable |       | 1        | 0.00 |

**Sample: 11155 - Gas Rack 2**

Analysis: TCLP Semivolatiles  
QC Batch: 2766  
Prep Batch: 2510

Analytical Method: S 8270C  
Date Analyzed: 2003-07-07  
Date Prepared: 2003-07-03

Prep Method: TCLP 1311  
Analyzed By: RC  
Prepared By: JH

| Parameter                            | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------------------------------|------|--------------|-------|----------|------|
| Pyridine                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| o-Cresol                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| m,p-Cresol                           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachloroethane                     |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Nitrobenzene                         |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobutadiene                  |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,6-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dinitrotoluene                   |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobenzene                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Pentachlorophenol                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |

| Surrogate            | Flag | Result  | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|----------------------|------|---------|-------|----------|-----------------|---------------------|--------------------|
| 2-Fluorophenol       | 13   | 0.00705 | mg/L  | 0.005    | 8.00            | 18                  | 2.83 - 110.33      |
| Phenol-d5            | 14   | 0.00545 | mg/L  | 0.005    | 8.00            | 14                  | 0 - 82.08          |
| Nitrobenzene-d5      | 15   | 0.0234  | mg/L  | 0.005    | 8.00            | 58                  | 26.72 - 155        |
| 2-Fluorobiphenyl     | 16   | 0.0180  | mg/L  | 0.005    | 8.00            | 45                  | 35.89 - 150.5      |
| 2,4,6-Tribromophenol | 17   | 0.00115 | mg/L  | 0.005    | 8.00            | 3                   | 0 - 204.91         |
| Terphenyl-d14        | 18   | 0.0150  | mg/L  | 0.005    | 8.00            | 38                  | 33.98 - 168.85     |

**Sample: 11155 - Gas Rack 2**

Analysis: TCLP Total 8 Metals  
QC Batch: 2501  
Prep Batch: 2229  
Analysis: TCLP Total 8 Metals  
QC Batch: 2532  
Prep Batch: 2301

Analytical Method: S 6010B  
Date Analyzed: 2003-06-26  
Date Prepared: 2003-06-24  
Analytical Method: S 7470A  
Date Analyzed: 2003-06-27  
Date Prepared: 2003-06-26

Prep Method: TCLP 1311  
Analyzed By: RR  
Prepared By: TP  
Prep Method: TCLP 1311  
Analyzed By: BC  
Prepared By: BC

| Parameter     | Flag | RL<br>Result | Units | Dilution | RL     |
|---------------|------|--------------|-------|----------|--------|
| TCLP Silver   |      | <0.125       | mg/L  | 1        | 0.125  |
| TCLP Arsenic  |      | 0.461        | mg/L  | 1        | 0.100  |
| TCLP Barium   |      | 2.63         | mg/L  | 1        | 0.100  |
| TCLP Cadmium  |      | <0.0500      | mg/L  | 1        | 0.0500 |
| TCLP Chromium |      | <0.100       | mg/L  | 1        | 0.100  |
| TCLP Mercury  |      | <0.0100      | mg/L  | 1        | 0.0100 |
| TCLP Lead     |      | 0.0920       | mg/L  | 1        | 0.0370 |

continued ...

<sup>13</sup>Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>14</sup>Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>15</sup>Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>16</sup>Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>17</sup>Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>18</sup>Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

Report Date: July 8, 2003  
TCLP

Work Order: 3062419  
TCLP

Page Number: 7 of 14

sample 11155 continued ...

| Parameter     | Flag | RL<br>Result | Units | Dilution | RL    |
|---------------|------|--------------|-------|----------|-------|
| TCLP Selenium |      | 0.916        | mg/L  | 1        | 0.500 |

**Sample: 11155 - Gas Rack 2**

Analysis: TCLP Volatiles  
QC Batch: 2640  
Prep Batch: 2408

Analytical Method: S 8260B  
Date Analyzed: 2003-07-01  
Date Prepared: 2003-06-30

Prep Method: TCLP 1311  
Analyzed By: JG  
Prepared By: JG

| Parameter                  | Flag | RL<br>Result | Units | Dilution | RL      |
|----------------------------|------|--------------|-------|----------|---------|
| Vinyl Chloride             |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,1-Dichloroethene         |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 2-Butanone (MEK)           |      | <0.500       | mg/L  | 50       | 0.0100  |
| Chloroform                 |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Benzene                    |      | 0.0600       | mg/L  | 50       | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Chlorobenzene              |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500      | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 49.7   | mg/L  | 1        | 50.0            | 99                  | 79 - 118           |
| Toluene-d8                   |      | 50.5   | mg/L  | 1        | 50.0            | 101                 | 86 - 114           |
| 4-Bromofluorobenzene (4-BFB) |      | 48.8   | mg/L  | 1        | 50.0            | 98                  | 79 - 116           |

**Method Blank (1)**      QC Batch: 2501

| Parameter     | Flag | Result  | Units | RL    |
|---------------|------|---------|-------|-------|
| TCLP Silver   |      | <0.125  | mg/L  | 0.125 |
| TCLP Arsenic  |      | <0.100  | mg/L  | 0.1   |
| TCLP Barium   |      | <0.100  | mg/L  | 0.1   |
| TCLP Cadmium  |      | <0.0500 | mg/L  | 0.05  |
| TCLP Chromium |      | <0.100  | mg/L  | 0.1   |
| TCLP Lead     |      | <0.0370 | mg/L  | 0.037 |
| TCLP Selenium |      | <0.500  | mg/L  | 0.5   |

**Method Blank (1)**      QC Batch: 2532

| Parameter    | Flag | Result  | Units | RL   |
|--------------|------|---------|-------|------|
| TCLP Mercury |      | <0.0100 | mg/L  | 0.01 |

Method Blank (1) QC Batch: 2640

| Parameter                  | Flag | Result  | Units | RL    |
|----------------------------|------|---------|-------|-------|
| Vinyl Chloride             |      | <0.0500 | mg/L  | 0.001 |
| 1,1-Dichloroethene         |      | <0.0500 | mg/L  | 0.001 |
| 2-Butanone (MEK)           |      | <0.500  | mg/L  | 0.01  |
| Chloroform                 |      | <0.0500 | mg/L  | 0.001 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500 | mg/L  | 0.001 |
| Benzene                    |      | <0.0500 | mg/L  | 0.001 |
| Carbon Tetrachloride       |      | <0.0500 | mg/L  | 0.001 |
| Trichloroethene (TCE)      |      | <0.0500 | mg/L  | 0.001 |
| Tetrachloroethene (PCE)    |      | <0.0500 | mg/L  | 0.001 |
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.001 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 49.8   | mg/L  | 1        | 50.0         | 100              | 79 - 118        |
| Toluene-d8                   |      | 49.6   | mg/L  | 1        | 50.0         | 99               | 86 - 114        |
| 4-Bromofluorobenzene (4-BFB) |      | 47.3   | mg/L  | 1        | 50.0         | 95               | 79 - 116        |

Method Blank (1) QC Batch: 2766

| Parameter                            | Flag | Result  | Units | RL |
|--------------------------------------|------|---------|-------|----|
| Pyridine                             |      | <0.0500 | mg/L  | 10 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500 | mg/L  | 10 |
| o-Cresol                             |      | <0.0500 | mg/L  | 10 |
| m,p-Cresol                           |      | <0.0500 | mg/L  | 10 |
| Hexachloroethane                     |      | <0.0500 | mg/L  | 10 |
| Nitrobenzene                         |      | <0.0500 | mg/L  | 10 |
| Hexachlorobutadiene                  |      | <0.0500 | mg/L  | 10 |
| 2,4,6-Trichlorophenol                |      | <0.0500 | mg/L  | 10 |
| 2,4,5-Trichlorophenol                |      | <0.0500 | mg/L  | 10 |
| 2,4-Dinitrotoluene                   |      | <0.0500 | mg/L  | 10 |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500 | mg/L  | 10 |
| Hexachlorobenzene                    |      | <0.0500 | mg/L  | 10 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500 | mg/L  | 10 |
| Pentachlorophenol                    |      | <0.0500 | mg/L  | 10 |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 2-Fluorophenol       |      | 0.110  | mg/L  | 0.005    | 60.0         | 37               | 2.83 - 110.33   |
| Phenol-d5            |      | 0.0903 | mg/L  | 0.005    | 60.0         | 30               | 0 - 82.08       |
| Nitrobenzene-d5      |      | 0.204  | mg/L  | 0.005    | 60.0         | 68               | 26.72 - 155     |
| 2-Fluorobiphenyl     |      | 0.175  | mg/L  | 0.005    | 60.0         | 58               | 35.89 - 150.5   |
| 2,4,6-Tribromophenol |      | 0.318  | mg/L  | 0.005    | 60.0         | 106              | 0 - 204.91      |
| Terphenyl-d14        |      | 0.205  | mg/L  | 0.005    | 60.0         | 68               | 33.98 - 168.85  |

Duplicate (1) QC Batch: 2433

| Param            | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------|------------------|---------------|-------|----------|-----|-----------|
| Reactivity       | non-reactive     | non-reactive  |       | 1        | 0   |           |
| Hydrogen Sulfide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Hydrogen Cyanide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Corrosivity      | non-corrosive    | non-corrosive | mm/yr | 1        | 0   | 20        |
| pH               | 7.90             | 7.90          | s.u.  | 1        | 0   | 20        |
| Ignitability     | non-ignitable    | non-ignitable |       | 1        | 0   | 20        |

Laboratory Control Spike (LCS-1) QC Batch: 2501

| Param         | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Silver   | 1.18       | 1.19        | mg/L  | 1    | 1.25         | <0.00780      | 94   | 1   | 75 - 125   | 20        |
| TCLP Arsenic  | 4.41       | 4.46        | mg/L  | 1    | 5.00         | <0.0590       | 88   | 1   | 75 - 125   | 20        |
| TCLP Barium   | 10.5       | 10.5        | mg/L  | 1    | 10.0         | <0.00340      | 105  | 0   | 75 - 125   | 20        |
| TCLP Cadmium  | 2.31       | 2.29        | mg/L  | 1    | 2.50         | <0.00270      | 92   | 1   | 75 - 125   | 20        |
| TCLP Chromium | 0.965      | 0.970       | mg/L  | 1    | 1.00         | <0.00660      | 96   | 0   | 75 - 125   | 20        |
| TCLP Lead     | 4.86       | 4.73        | mg/L  | 1    | 5.00         | <0.0370       | 97   | 3   | 75 - 125   | 20        |
| TCLP Selenium | 4.57       | 4.62        | mg/L  | 1    | 5.00         | <0.100        | 91   | 1   | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 2532

| Param        | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Mercury | 0.0508     | 0.0511      | mg/L  | 1    | 0.0500       | <0.000200     | 102  | 0   | 80 - 120   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 2640

| Param                      | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Vinyl Chloride             | 3.97       | 3.96        | mg/L  | 50   | 0.100        | <0.00845      | 79   | 0   | 55 - 131   | 20        |
| 1,1-Dichloroethene         | 4.64       | 4.62        | mg/L  | 50   | 0.100        | <0.00790      | 93   | 0   | 81 - 119   | 20        |
| 2-Butanone (MEK)           | 3.74       | 3.79        | mg/L  | 50   | 0.100        | <0.0185       | 75   | 1   | 41 - 157   | 20        |
| Chloroform                 | 4.84       | 4.80        | mg/L  | 50   | 0.100        | <0.00480      | 97   | 1   | 79 - 126   | 20        |
| 1,2-Dichloroethane (EDC)   | 5.13       | 5.18        | mg/L  | 50   | 0.100        | <0.00470      | 103  | 1   | 72 - 131   | 20        |
| Benzene                    | 5.04       | 5.08        | mg/L  | 50   | 0.100        | <0.00520      | 101  | 1   | 87 - 118   | 20        |
| Carbon Tetrachloride       | 5.04       | 5.07        | mg/L  | 50   | 0.100        | <0.00390      | 101  | 0   | 43 - 162   | 20        |
| Trichloroethene (TCE)      | 4.84       | 4.82        | mg/L  | 50   | 0.100        | <0.00585      | 97   | 0   | 78 - 110   | 20        |
| Tetrachloroethene (PCE)    | 2.86       | 2.86        | mg/L  | 50   | 0.100        | <0.0205       | 57   | 0   | 48 - 81    | 20        |
| Chlorobenzene              | 5.06       | 5.04        | mg/L  | 50   | 0.100        | <0.00300      | 101  | 0   | 90 - 111   | 20        |
| 1,4-Dichlorobenzene (para) | 4.86       | 4.86        | mg/L  | 50   | 0.100        | <0.00425      | 97   | 0   | 81 - 115   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Dibromofluoromethane         | 50.1       | 49.8        | mg/L  | 1    | 50.0         | 100      | 100       | 79 - 118   |
| Toluene-d8                   | 48.8       | 49.3        | mg/L  | 1    | 50.0         | 98       | 99        | 86 - 114   |
| 4-Bromofluorobenzene (4-BFB) | 48.3       | 48.0        | mg/L  | 1    | 50.0         | 97       | 96        | 79 - 116   |

Laboratory Control Spike (LCS-1) QC Batch: 2766

| Param                                | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit     | RPD Limit |
|--------------------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|----------------|-----------|
| Pyridine                             | 23.0       | 21.9        | mg/L  | 1    | 80.0         | <2.41         | 29   | 5   | 12.6 - 50.02   | 20        |
| 1,4-Dichlorobenzene (para)           | 54.7       | 54.3        | mg/L  | 1    | 80.0         | <1.93         | 68   | 1   | 13.67 - 139.56 | 20        |
| o-Cresol                             | 48.2       | 47.9        | mg/L  | 1    | 80.0         | <1.46         | 60   | 1   | 18.58 - 114.05 | 20        |
| m,p-Cresol                           | 108        | 109         | mg/L  | 1    | 80.0         | <1.19         | 135  | 1   | 10.62 - 252.59 | 20        |
| Hexachloroethane                     | 59.5       | 59.0        | mg/L  | 1    | 80.0         | <1.91         | 74   | 1   | 25.17 - 146.78 | 20        |
| Nitrobenzene                         | 71.6       | 73.7        | mg/L  | 1    | 80.0         | <1.50         | 90   | 3   | 26.78 - 144.08 | 20        |
| Hexachlorobutadiene                  | 58.1       | 58.3        | mg/L  | 1    | 80.0         | <1.57         | 73   | 0   | 0 - 171.61     | 20        |
| 2,4,6-Trichlorophenol                | 58.6       | 58.1        | mg/L  | 1    | 80.0         | <1.64         | 73   | 1   | 19.23 - 144.93 | 20        |
| 2,4,5-Trichlorophenol                | 61.6       | 63.6        | mg/L  | 1    | 80.0         | <1.95         | 77   | 3   | 40.38 - 144.67 | 20        |
| 2,4-Dinitrotoluene                   | 65.6       | 65.5        | mg/L  | 1    | 80.0         | <2.09         | 82   | 0   | 18.51 - 158.26 | 20        |
| 2,4-Dichlorophenoxyacetic acid       | 118        | 116         | mg/L  | 1    | 80.0         | 0             | 148  | 2   | 0 - 165.81     | 20        |
| Hexachlorobenzene                    | 68.7       | 68.0        | mg/L  | 1    | 80.0         | <1.63         | 86   | 1   | 2.35 - 182.77  | 20        |
| 2,4,5-Trichlorophenoxypropionic acid | 112        | 114         | mg/L  | 1    | 80.0         | 0             | 140  | 2   | 22.1 - 144.74  | 20        |
| Pentachlorophenol                    | 69.7       | 71.2        | mg/L  | 1    | 80.0         | <3.04         | 87   | 2   | 0 - 156.72     | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                            | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit     |
|--------------------------------------|------------|-------------|-------|------|--------------|----------|-----------|----------------|
| 2-Fluorophenol <sup>1920</sup>       | 2.87       | 2.86        | mg/L  | 1    | 8.00         | 36       | 36        | 2.83 - 110.33  |
| Phenol-d5 <sup>2122</sup>            | 2.34       | 2.39        | mg/L  | 1    | 8.00         | 29       | 30        | 0 - 82.08      |
| Nitrobenzene-d5 <sup>2324</sup>      | 8.30       | 8.27        | mg/L  | 1    | 8.00         | 104      | 103       | 26.72 - 155    |
| 2-Fluorobiphenyl <sup>2526</sup>     | 5.34       | 5.37        | mg/L  | 1    | 8.00         | 67       | 67        | 35.89 - 150.5  |
| 2,4,6-Tribromophenol <sup>2728</sup> | 0.580      | 1.03        | mg/L  | 1    | 8.00         | 7        | 13        | 0 - 204.91     |
| Terphenyl-d14 <sup>2930</sup>        | 4.93       | 4.94        | mg/L  | 1    | 8.00         | 62       | 62        | 33.98 - 168.85 |

Matrix Spike (MS-1) QC Batch: 2501

| Param         | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Silver   | 1.18      | 1.20       | mg/L  | 1    | 1.25         | 0.015         | 93   | 2   | 75 - 125   | 20        |
| TCLP Arsenic  | 5.16      | 5.22       | mg/L  | 1    | 5.00         | 0.461         | 94   | 1   | 75 - 125   | 20        |
| TCLP Barium   | 12.2      | 12.3       | mg/L  | 1    | 10.0         | 2.63          | 96   | 1   | 75 - 125   | 20        |
| TCLP Cadmium  | 2.30      | 2.30       | mg/L  | 1    | 2.50         | 0.028         | 91   | 0   | 75 - 125   | 20        |
| TCLP Chromium | 0.972     | 0.958      | mg/L  | 1    | 1.00         | 0.013         | 96   | 1   | 75 - 125   | 20        |
| TCLP Lead     | 4.74      | 4.86       | mg/L  | 1    | 5.00         | 0.092         | 93   | 2   | 75 - 125   | 20        |
| TCLP Selenium | 5.35      | 5.10       | mg/L  | 1    | 5.00         | 0.916         | 89   | 5   | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2532

- <sup>19</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>20</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>21</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>22</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>23</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>24</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>25</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>26</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>27</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>28</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>29</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>30</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.

| Param        | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Mercury | 0.0515    | 0.0497     | mg/L  | 1    | 0.0500       | <0.000200     | 103  | 4   | 80 - 120   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** QC Batch: 2640

| Param                      | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Vinyl Chloride             | 3.89      | 3.95       | mg/L  | 50   | 0.100        | <0.00845      | 78   | 2   | 58 - 136   | 20        |
| 1,1-Dichloroethene         | 4.75      | 4.78       | mg/L  | 50   | 0.100        | <0.00790      | 95   | 1   | 81 - 125   | 20        |
| 2-Butanone (MEK)           | 3.60      | 3.54       | mg/L  | 50   | 0.100        | <0.0185       | 72   | 2   | 33 - 122   | 20        |
| Chloroform                 | 4.88      | 4.89       | mg/L  | 50   | 0.100        | <0.00480      | 98   | 0   | 81 - 130   | 20        |
| 1,2-Dichloroethane (EDC)   | 5.45      | 5.49       | mg/L  | 50   | 0.100        | <0.00470      | 109  | 1   | 76 - 137   | 20        |
| Benzene                    | 5.14      | 5.22       | mg/L  | 50   | 0.100        | <0.00520      | 103  | 2   | 88 - 121   | 20        |
| Carbon Tetrachloride       | 5.40      | 5.43       | mg/L  | 50   | 0.100        | <0.00390      | 108  | 0   | 56 - 156   | 20        |
| Trichloroethene (TCE)      | 4.76      | 4.84       | mg/L  | 50   | 0.100        | <0.00585      | 95   | 2   | 77 - 111   | 20        |
| Tetrachloroethene (PCE)    | 2.81      | 2.80       | mg/L  | 50   | 0.100        | <0.0205       | 56   | 0   | 48 - 80    | 20        |
| Chlorobenzene              | 5.11      | 5.13       | mg/L  | 50   | 0.100        | <0.00300      | 102  | 0   | 89 - 113   | 20        |
| 1,4-Dichlorobenzene (para) | 4.94      | 4.93       | mg/L  | 50   | 0.100        | <0.00425      | 99   | 0   | 82 - 113   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Dibromofluoromethane         | 50.2      | 51.0       | mg/L  | 1    | 50           | 100     | 102      | 79 - 118   |
| Toluene-d8                   | 49.9      | 49.8       | mg/L  | 1    | 50           | 100     | 100      | 86 - 114   |
| 4-Bromofluorobenzene (4-BFB) | 46.5      | 46.0       | mg/L  | 1    | 50           | 93      | 92       | 79 - 116   |

**Matrix Spike (MS-1)** QC Batch: 2766

| Param                                | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit     | RPD Limit |
|--------------------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|----------------|-----------|
| Pyridine                             | 14.5      | 15.2       | mg/L  | 1    | 80.0         | <2.41         | 18   | 5   | 12.6 - 50.02   | 20        |
| 1,4-Dichlorobenzene (para)           | 57.5      | 58.2       | mg/L  | 1    | 80.0         | <1.93         | 72   | 1   | 13.67 - 139.56 | 20        |
| o-Cresol                             | 46.0      | 46.2       | mg/L  | 1    | 80.0         | <1.46         | 58   | 0   | 18.58 - 114.05 | 20        |
| m,p-Cresol                           | 96.7      | 97.6       | mg/L  | 1    | 80.0         | <1.19         | 121  | 1   | 10.62 - 252.59 | 20        |
| Hexachloroethane                     | 63.8      | 64.4       | mg/L  | 1    | 80.0         | <1.91         | 80   | 1   | 25.17 - 146.78 | 20        |
| Nitrobenzene                         | 75.3      | 76.2       | mg/L  | 1    | 80.0         | <1.50         | 94   | 1   | 26.78 - 144.08 | 20        |
| Hexachlorobutadiene                  | 59.7      | 61.6       | mg/L  | 1    | 80.0         | <1.57         | 75   | 3   | 0 - 171.61     | 20        |
| 2,4,6-Trichlorophenol                | 57.8      | 56.5       | mg/L  | 1    | 80.0         | <1.64         | 72   | 2   | 19.23 - 144.93 | 20        |
| 2,4,5-Trichlorophenol                | 61.4      | 61.1       | mg/L  | 1    | 80.0         | <1.95         | 77   | 0   | 40.38 - 144.67 | 20        |
| 2,4-Dinitrotoluene                   | 62.1      | 61.3       | mg/L  | 1    | 80.0         | <2.09         | 78   | 1   | 18.51 - 158.26 | 20        |
| 2,4-Dichlorophenoxyacetic acid       | 110       | 107        | mg/L  | 1    | 80.0         | 0             | 138  | 3   | 0 - 165.81     | 20        |
| Hexachlorobenzene                    | 63.0      | 63.1       | mg/L  | 1    | 80.0         | <1.63         | 79   | 0   | 2.35 - 182.77  | 20        |
| 2,4,5-Trichlorophenoxypropionic acid | 113       | 105        | mg/L  | 1    | 80.0         | 0             | 141  | 7   | 22.1 - 144.74  | 20        |
| Pentachlorophenol                    | 67.1      | 66.5       | mg/L  | 1    | 80.0         | <3.04         | 84   | 1   | 0 - 156.72     | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

*continued ...*



matrix spikes continued ...

| Surrogate            |      | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit  |
|----------------------|------|--------------|---------------|-------|------|-----------------|------------|-------------|----------------|
| Surrogate            |      | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit  |
| 2-Fluorophenol       | 3132 | 2.70         | 2.69          | mg/L  | 1    | 8               | 34         | 34          | 2.83 - 110.33  |
| Phenol-d5            | 3334 | 1.88         | 2.10          | mg/L  | 1    | 8               | 24         | 26          | 0 - 82.08      |
| Nitrobenzene-d5      | 3536 | 8.37         | 9.19          | mg/L  | 1    | 8               | 105        | 115         | 26.72 - 155    |
| 2-Fluorobiphenyl     | 3738 | 5.38         | 5.33          | mg/L  | 1    | 8               | 67         | 67          | 35.89 - 150.5  |
| 2,4,6-Tribromophenol | 3940 | 0.00         | 0.590         | mg/L  | 1    | 8               | 0          | 7           | 0 - 204.91     |
| Terphenyl-d14        | 4142 | 4.00         | 4.07          | mg/L  | 1    | 8               | 50         | 51          | 33.98 - 168.85 |

## Standard (ICV-1) QC Batch: 2501

| Param         | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Silver   | 43   | mg/L  | 0.125                 | 0.125                  | 100                         | 90 - 110                      | 2003-06-26       |
| TCLP Arsenic  |      | mg/L  | 1.00                  | 0.950                  | 95                          | 90 - 110                      | 2003-06-26       |
| TCLP Barium   | 44   | mg/L  | 1.00                  | 0.989                  | 99                          | 90 - 110                      | 2003-06-26       |
| TCLP Cadmium  | 45   | mg/L  | 1.00                  | 0.970                  | 97                          | 90 - 110                      | 2003-06-26       |
| TCLP Chromium | 46   | mg/L  | 1.00                  | 0.975                  | 98                          | 90 - 110                      | 2003-06-26       |
| TCLP Lead     |      | mg/L  | 1.00                  | 0.995                  | 100                         | 90 - 110                      | 2003-06-26       |
| TCLP Selenium |      | mg/L  | 1.00                  | 0.950                  | 95                          | 90 - 110                      | 2003-06-26       |

## Standard (CCV-1) QC Batch: 2501

| Param         | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Silver   | 47   | mg/L  | 0.125                 | 0.118                  | 94                          | 90 - 110                      | 2003-06-26       |
| TCLP Arsenic  |      | mg/L  | 1.00                  | 0.970                  | 97                          | 90 - 110                      | 2003-06-26       |
| TCLP Barium   | 48   | mg/L  | 1.00                  | 0.978                  | 98                          | 90 - 110                      | 2003-06-26       |
| TCLP Cadmium  | 49   | mg/L  | 1.00                  | 0.965                  | 96                          | 90 - 110                      | 2003-06-26       |
| TCLP Chromium | 50   | mg/L  | 1.00                  | 0.988                  | 99                          | 90 - 110                      | 2003-06-26       |
| TCLP Lead     |      | mg/L  | 1.00                  | 0.968                  | 97                          | 90 - 110                      | 2003-06-26       |

continued ...

- <sup>31</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>32</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>33</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>34</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>35</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>36</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>37</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>38</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>39</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>40</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>41</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>42</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>43</sup>Changed spike amount from 0.25 to 0.125 due to concentration in spiking solution.  
<sup>44</sup>Changed spike amount from 2 to 1 due to concentration in spiking solution.  
<sup>45</sup>Changed spike amount from 0.5 to 1 due to concentration in spiking solution.  
<sup>46</sup>Changed spike amount from 0.2 to 1 due to concentration in spiking solution.  
<sup>47</sup>Changed spike amount from 0.25 to 0.125 due to concentration in spiking solution.  
<sup>48</sup>Changed spike amount from 2 to 1 due to concentration in spiking solution.concentration in spiking solu-  
tion.concentration in spiking solution.  
<sup>49</sup>Changed spike amount from 0.5 to 1 due to  
<sup>50</sup>Changed spike amount from 0.2 to 1 due to concentration in spiking solution.

standard continued ...

| Param         | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Selenium |      | mg/L  | 1.00                  | 0.987                  | 99                          | 90 - 110                      | 2003-06-26       |

Standard (ICV-1) QC Batch: 2532

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Mercury |      | mg/L  | 0.00500               | 0.00515                | 103                         | 90 - 110                      | 2003-06-27       |

Standard (CCV-1) QC Batch: 2532

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Mercury |      | mg/L  | 0.00500               | 0.00451                | 90                          | 80 - 120                      | 2003-06-27       |

Standard (CCV-1) QC Batch: 2640

| Param                      | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Vinyl Chloride             |      | mg/L  | 50.0                  | 50.0                   | 100                         | 80 - 120                      | 2003-07-01       |
| 1,1-Dichloroethene         |      | mg/L  | 50.0                  | 51.0                   | 102                         | 80 - 120                      | 2003-07-01       |
| 2-Butanone (MEK)           | 51   | mg/L  | 50.0                  | 37.0                   | 74                          | 80 - 120                      | 2003-07-01       |
| Chloroform                 |      | mg/L  | 50.0                  | 50.0                   | 100                         | 80 - 120                      | 2003-07-01       |
| 1,2-Dichloroethane (EDC)   |      | mg/L  | 50.0                  | 51.0                   | 102                         | 80 - 120                      | 2003-07-01       |
| Benzene                    |      | mg/L  | 50.0                  | 53.0                   | 106                         | 80 - 120                      | 2003-07-01       |
| Carbon Tetrachloride       |      | mg/L  | 50.0                  | 57.0                   | 114                         | 80 - 120                      | 2003-07-01       |
| Trichloroethene (TCE)      |      | mg/L  | 50.0                  | 54.0                   | 108                         | 80 - 120                      | 2003-07-01       |
| Tetrachloroethene (PCE)    | 52   | mg/L  | 50.0                  | 35.0                   | 70                          | 80 - 120                      | 2003-07-01       |
| Chlorobenzene              |      | mg/L  | 50.0                  | 52.0                   | 104                         | 80 - 120                      | 2003-07-01       |
| 1,4-Dichlorobenzene (para) |      | mg/L  | 50.0                  | 51.0                   | 102                         | 80 - 120                      | 2003-07-01       |

Standard (CCV-1) QC Batch: 2766

| Param                      | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Pyridine                   |      | mg/L  | 60.0                  | 65.4                   | 109                         | 80 - 120                      | 2003-07-07       |
| 1,4-Dichlorobenzene (para) |      | mg/L  | 60.0                  | 58.2                   | 97                          | 80 - 120                      | 2003-07-07       |
| o-Cresol                   |      | mg/L  | 60.0                  | 67.6                   | 113                         | 80 - 120                      | 2003-07-07       |
| m,p-Cresol                 |      | mg/L  | 60.0                  | 70.4                   | 117                         | 80 - 120                      | 2003-07-07       |
| Hexachloroethane           |      | mg/L  | 60.0                  | 67.2                   | 112                         | 80 - 120                      | 2003-07-07       |
| Nitrobenzene               |      | mg/L  | 60.0                  | 71.8                   | 120                         | 80 - 120                      | 2003-07-07       |
| Hexachlorobutadiene        |      | mg/L  | 60.0                  | 61.1                   | 102                         | 80 - 120                      | 2003-07-07       |
| 2,4,6-Trichlorophenol      |      | mg/L  | 60.0                  | 61.9                   | 103                         | 80 - 120                      | 2003-07-07       |
| 2,4,5-Trichlorophenol      |      | mg/L  | 60.0                  | 64.1                   | 107                         | 80 - 120                      | 2003-07-07       |

continued ...

<sup>51</sup>average of all ccv analytes=98 which is within acceptable limits showing analysis to be in control.

<sup>52</sup>average of all ccv analytes=98 which is within acceptable limits showing analysis to be in control.

standard continued ...

| Param                                | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| 2,4-Dinitrotoluene                   |      | mg/L  | 60.0                  | 63.2                   | 105                         | 80 - 120                      | 2003-07-07       |
| 2,4-Dichlorophenoxyacetic acid       |      | mg/L  | 60.0                  | 63.9                   | 106                         | 80 - 120                      | 2003-07-07       |
| Hexachlorobenzene                    |      | mg/L  | 60.0                  | 61.7                   | 103                         | 80 - 120                      | 2003-07-07       |
| 2,4,5-Trichlorophenoxypropionic acid |      | mg/L  | 60.0                  | 64.9                   | 108                         | 80 - 120                      | 2003-07-07       |
| Pentachlorophenol                    |      | mg/L  | 60.0                  | 69.1                   | 115                         | 80 - 120                      | 2003-07-07       |

| Surrogate            | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|----------------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| 2-Fluorophenol       |      | 61.2   | mg/L  | 1        | 60.0            | 102                 | 80 - 120          |
| Phenol-d5            |      | 67.2   | mg/L  | 1        | 60.0            | 112                 | 80 - 120          |
| Nitrobenzene-d5      |      | 69.1   | mg/L  | 1        | 60.0            | 115                 | 80 - 120          |
| 2-Fluorobiphenyl     |      | 62.0   | mg/L  | 1        | 60.0            | 103                 | 80 - 120          |
| 2,4,6-Tribromophenol |      | 54.8   | mg/L  | 1        | 60.0            | 91                  | 80 - 120          |
| Terphenyl-d14        |      | 59.3   | mg/L  | 1        | 60.0            | 99                  | 80 - 120          |

11153-50

6701 Aberdeen Avenue, Ste. 8  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1298

# TraceAnalysis, Inc.

155 McCutcheon, Suite H  
El Paso, Texas 79932  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (800) 588-3443

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3062419

Company Name: NAVITO Phone #: \_\_\_\_\_  
Address: (Street, City, Zip) 501 S. Hill Fax #: \_\_\_\_\_  
Contact Person: Charles Phynak  
Invoice to: \_\_\_\_\_  
(if different from above)  
Project #: \_\_\_\_\_  
Project Location: \_\_\_\_\_  
Project Name: MULTI TCLP  
Sampler Signature: \_\_\_\_\_

| LAB #<br>(LAB USE ONLY) | FIELD CODE      | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     |      | SAMPLING |      |
|-------------------------|-----------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|------|----------|------|
|                         |                 |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | DATE     | TIME |
| 11153                   | New Slurry Tank | 1            | 1L            |        | X    |     | ✓      |                     |                  |                                |      | X   |      | 6/17/03  | 1600 |
| 54                      | Gas Rack 1      | 1            | 1L            |        | X    |     |        |                     |                  |                                |      | X   |      | 6/17/03  | 1130 |
| 55                      | Gas Rack 2      | 1            | 1L            |        | X    |     |        |                     |                  |                                |      | X   |      | 6/17/03  | 1140 |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |
|                         |                 |              |               |        |      |     |        |                     |                  |                                |      |     |      |          |      |

Relinquished by: \_\_\_\_\_ Date: 6/17/03 Time: 1615  
Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received by: \_\_\_\_\_ Date: 6/18/03 Time: \_\_\_\_\_

Relinquished at Laboratory by: Charles Phynak Date: 6/18/03 Time: \_\_\_\_\_

Relinquished at Laboratory by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished at Laboratory by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished at Laboratory by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

ANALYSIS REQUEST  
(Circle or Specify Method No.)

|                                                  |   |
|--------------------------------------------------|---|
| MTBE 8021B/602                                   |   |
| BTEX 8021B/602                                   |   |
| TPH 418.1/TX1005                                 |   |
| PAH 8270C                                        |   |
| Total Metals Ag As Ba Cd Cr Pb Se Hg 8010B/200.7 | X |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg              | X |
| TCLP Volatiles                                   | X |
| TCLP Semi Volatiles                              | X |
| TCLP Pesticides                                  | X |
| RCI                                              | X |
| GC/MS Vol. 8260B/624                             |   |
| GC/MS Semi. Vol. 8270C/625                       |   |
| PCBs 8082/608                                    |   |
| Pesticides 8081A/608                             |   |
| BOD, TSS, pH                                     |   |
| Turn Around Time if different from standard      |   |
| Hold                                             |   |

### LAB USE ONLY

Inlet: \_\_\_\_\_ Y / N  
Headspace: \_\_\_\_\_ Y / N  
Temp: \_\_\_\_\_  
Log-In Review: MS

☐ Check if Special Reporting Limits Are Needed

Carrier # \_\_\_\_\_

11153-50

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

RECEIVED

State of New Mexico  
Minerals and Natural Resources

AUG 01 2003

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

AUG 1 2003

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

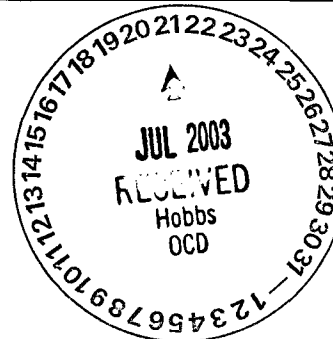
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                           | 4. Generator Navajo Refining                    |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5. Originating Site Artesia, NM                 |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6. Transporter D & J Waste or Jim Wilson Const. |
| 7. Location of Material (Street Address or ULSTR) 501 East Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8. State New Mexico                             |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                 |

### BRIEF DESCRIPTION OF MATERIAL:

RE: 07-22-03B

Contaminated Soil.

Attached is Non-Exempt waste form and Analytical results.



Estimated Volume 1350 yards Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers  
Waste Management Facility Authorized Agent

TITLE: Clerical DATE: 07-22-03

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

072203-2

(This space for State Use)

APPROVED BY: [Signature]

TITLE: Enviro Eng

DATE: 7-29-03

APPROVED BY: [Signature]

TITLE: Environmental Geologist

DATE: 7/22/03

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Contaminated soil

ESTIMATED VOLUME: 1350 yards

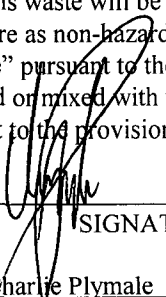
GENERATING PROCESS: Contaminated soil removed for building of a concrete foundation and expansion of our gasoline loading rack.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: D and J Waste, or Jim Wilson Const.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: 

SIGNATURE

NAME: Charlie Plymale

PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 7/21/03

## Summary Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: July 8, 2003

Work Order: 3062419

Project Name: TCLP

| Sample | Description     | Matrix | Date Taken | Time Taken | Date Received |
|--------|-----------------|--------|------------|------------|---------------|
| 11153  | New Slurry Tank | soil   | 2003-06-17 | 11:00      | 2003-06-18    |
| 11154  | Gas Rack 1      | soil   | 2003-06-17 | 11:30      | 2003-06-18    |
| 11155  | Gas Rack 2      | soil   | 2003-06-17 | 11:40      | 2003-06-18    |

### Sample: 11153 - New Slurry Tank

| Param                                | Flag | Result        | Units | RL     |
|--------------------------------------|------|---------------|-------|--------|
| Reactivity                           |      | non-reactive  |       | 0.00   |
| Hydrogen Sulfide                     |      | <10.0         | mg/Kg | 10.0   |
| Hydrogen Cyanide                     |      | <2.50         | mg/Kg | 2.50   |
| Corrosivity                          |      | non-corrosive | mm/yr | 0.00   |
| pH                                   |      | 8.10          | s.u.  | 0.00   |
| Ignitability                         |      | non-ignitable |       | 0.00   |
| Pyridine                             |      | <0.0500       | mg/L  | 10.0   |
| 1,4-Dichlorobenzene (para)           |      | <0.0500       | mg/L  | 10.0   |
| o-Cresol                             |      | <0.0500       | mg/L  | 10.0   |
| m,p-Cresol                           |      | <0.0500       | mg/L  | 10.0   |
| Hexachloroethane                     |      | <0.0500       | mg/L  | 10.0   |
| Nitrobenzene                         |      | <0.0500       | mg/L  | 10.0   |
| Hexachlorobutadiene                  |      | <0.0500       | mg/L  | 10.0   |
| 2,4,6-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0   |
| 2,4,5-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0   |
| 2,4-Dinitrotoluene                   |      | <0.0500       | mg/L  | 10.0   |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500       | mg/L  | 10.0   |
| Hexachlorobenzene                    |      | <0.0500       | mg/L  | 10.0   |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500       | mg/L  | 10.0   |
| Pentachlorophenol                    |      | <0.0500       | mg/L  | 10.0   |
| TCLP Silver                          |      | <0.125        | mg/L  | 0.125  |
| TCLP Arsenic                         |      | 0.313         | mg/L  | 0.100  |
| TCLP Barium                          |      | 2.12          | mg/L  | 0.100  |
| TCLP Cadmium                         |      | <0.0500       | mg/L  | 0.0500 |
| TCLP Chromium                        |      | <0.100        | mg/L  | 0.100  |
| TCLP Mercury                         |      | <0.0100       | mg/L  | 0.0100 |
| TCLP Lead                            |      | 0.652         | mg/L  | 0.0370 |
| TCLP Selenium                        |      | <0.500        | mg/L  | 0.500  |

*continued ...*

sample 11153 continued ...

| Param                      | Flag | Result  | Units | RL      |
|----------------------------|------|---------|-------|---------|
| Vinyl Chloride             |      | <0.0500 | mg/L  | 0.00100 |
| 1,1-Dichloroethene         |      | <0.0500 | mg/L  | 0.00100 |
| 2-Butanone (MEK)           |      | <0.500  | mg/L  | 0.0100  |
| Chloroform                 |      | <0.0500 | mg/L  | 0.00100 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500 | mg/L  | 0.00100 |
| Benzene                    |      | <0.0500 | mg/L  | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500 | mg/L  | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500 | mg/L  | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500 | mg/L  | 0.00100 |
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.00100 |

## Sample: 11154 - Gas Rack 1

| Param                                | Flag | Result        | Units | RL      |
|--------------------------------------|------|---------------|-------|---------|
| Reactivity                           |      | non-reactive  |       | 0.00    |
| Hydrogen Sulfide                     |      | <10.0         | mg/Kg | 10.0    |
| Hydrogen Cyanide                     |      | <2.50         | mg/Kg | 2.50    |
| Corrosivity                          |      | non-corrosive | mm/yr | 0.00    |
| pH                                   |      | 6.10          | s.u.  | 0.00    |
| Ignitability                         |      | non-ignitable |       | 0.00    |
| Pyridine                             |      | <0.0500       | mg/L  | 10.0    |
| 1,4-Dichlorobenzene (para)           |      | <0.0500       | mg/L  | 10.0    |
| o-Cresol                             |      | <0.0500       | mg/L  | 10.0    |
| m,p-Cresol                           |      | <0.0500       | mg/L  | 10.0    |
| Hexachloroethane                     |      | <0.0500       | mg/L  | 10.0    |
| Nitrobenzene                         |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobutadiene                  |      | <0.0500       | mg/L  | 10.0    |
| 2,4,6-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dinitrotoluene                   |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dichlorophenoxyacetic acid       |      | <10.0         | mg/L  | 10.0    |
| Hexachlorobenzene                    |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenoxypropionic acid |      | <10.0         | mg/L  | 10.0    |
| Pentachlorophenol                    |      | <0.0500       | mg/L  | 10.0    |
| TCLP Silver                          |      | <0.125        | mg/L  | 0.125   |
| TCLP Arsenic                         |      | 0.237         | mg/L  | 0.100   |
| TCLP Barium                          |      | 3.35          | mg/L  | 0.100   |
| TCLP Cadmium                         |      | <0.0500       | mg/L  | 0.0500  |
| TCLP Chromium                        |      | <0.100        | mg/L  | 0.100   |
| TCLP Mercury                         |      | <0.0100       | mg/L  | 0.0100  |
| TCLP Lead                            |      | 0.0950        | mg/L  | 0.0370  |
| TCLP Selenium                        |      | 0.577         | mg/L  | 0.500   |
| Vinyl Chloride                       |      | <0.0500       | mg/L  | 0.00100 |
| 1,1-Dichloroethene                   |      | <0.0500       | mg/L  | 0.00100 |
| 2-Butanone (MEK)                     |      | <0.500        | mg/L  | 0.0100  |
| Chloroform                           |      | <0.0500       | mg/L  | 0.00100 |
| 1,2-Dichloroethane (EDC)             |      | <0.0500       | mg/L  | 0.00100 |
| Benzene                              |      | <0.0500       | mg/L  | 0.00100 |
| Carbon Tetrachloride                 |      | <0.0500       | mg/L  | 0.00100 |
| Trichloroethene (TCE)                |      | <0.0500       | mg/L  | 0.00100 |
| Tetrachloroethene (PCE)              |      | <0.0500       | mg/L  | 0.00100 |

continued ...



sample 11154 continued ...

| Param                      | Flag | Result  | Units | RL      |
|----------------------------|------|---------|-------|---------|
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.00100 |

## Sample: 11155 - Gas Rack 2

| Param                                | Flag | Result        | Units | RL      |
|--------------------------------------|------|---------------|-------|---------|
| Reactivity                           |      | non-reactive  |       | 0.00    |
| Hydrogen Sulfide                     |      | <10.0         | mg/Kg | 10.0    |
| Hydrogen Cyanide                     |      | <2.50         | mg/Kg | 2.50    |
| Corrosivity                          |      | non-corrosive | mm/yr | 0.00    |
| pH                                   |      | 7.90          | s.u.  | 0.00    |
| Ignitability                         |      | non-ignitable |       | 0.00    |
| Pyridine                             |      | <0.0500       | mg/L  | 10.0    |
| 1,4-Dichlorobenzene (para)           |      | <0.0500       | mg/L  | 10.0    |
| o-Cresol                             |      | <0.0500       | mg/L  | 10.0    |
| m,p-Cresol                           |      | <0.0500       | mg/L  | 10.0    |
| Hexachloroethane                     |      | <0.0500       | mg/L  | 10.0    |
| Nitrobenzene                         |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobutadiene                  |      | <0.0500       | mg/L  | 10.0    |
| 2,4,6-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dinitrotoluene                   |      | <0.0500       | mg/L  | 10.0    |
| 1,4-Dichlorophenoxyacetic acid       |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobenzene                    |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500       | mg/L  | 10.0    |
| Pentachlorophenol                    |      | <0.0500       | mg/L  | 10.0    |
| TCLP Silver                          |      | <0.125        | mg/L  | 0.125   |
| TCLP Arsenic                         |      | 0.461         | mg/L  | 0.100   |
| CLP Barium                           |      | 2.63          | mg/L  | 0.100   |
| CLP Cadmium                          |      | <0.0500       | mg/L  | 0.0500  |
| CLP Chromium                         |      | <0.100        | mg/L  | 0.100   |
| CLP Mercury                          |      | <0.0100       | mg/L  | 0.0100  |
| CLP Lead                             |      | 0.0920        | mg/L  | 0.0370  |
| CLP Selenium                         |      | 0.916         | mg/L  | 0.500   |
| vinyl Chloride                       |      | <0.0500       | mg/L  | 0.00100 |
| 1,1-Dichloroethene                   |      | <0.0500       | mg/L  | 0.00100 |
| Butanone (MEK)                       |      | <0.500        | mg/L  | 0.0100  |
| Trichloroform                        |      | <0.0500       | mg/L  | 0.00100 |
| 1,2-Dichloroethane (EDC)             |      | <0.0500       | mg/L  | 0.00100 |
| Benzene                              |      | 0.0600        | mg/L  | 0.00100 |
| Carbon Tetrachloride                 |      | <0.0500       | mg/L  | 0.00100 |
| Trichloroethene (TCE)                |      | <0.0500       | mg/L  | 0.00100 |
| 1,1,2-Trichloroethene (PCE)          |      | <0.0500       | mg/L  | 0.00100 |
| Toluene                              |      | <0.0500       | mg/L  | 0.00100 |
| 1,2-Dichlorobenzene (para)           |      | <0.0500       | mg/L  | 0.00100 |

# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
155 McCutcheon, Suite H

Lubbock, Texas 79424  
El Paso, Texas 79932

800•378•1296  
888•588•3443  
E-Mail: lab@traceanalysis.com

806•794•1296  
915•585•3443

FAX 806•794•1298  
FAX 915•585•4944

## Analytical and Quality Control Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: July 8, 2003

Work Order: 3062419

Project Name: TCLP  
Project Number: TCLP

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description     | Matrix | Date<br>Taken | Time<br>Taken | Date<br>Received |
|--------|-----------------|--------|---------------|---------------|------------------|
| 11153  | New Slurry Tank | soil   | 2003-06-17    | 11:00         | 2003-06-18       |
| 11154  | Gas Rack 1      | soil   | 2003-06-17    | 11:30         | 2003-06-18       |
| 11155  | Gas Rack 2      | soil   | 2003-06-17    | 11:40         | 2003-06-18       |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

## Analytical Report

### Sample: 11153 - New Slurry Tank

|                  |                                           |                  |
|------------------|-------------------------------------------|------------------|
| Analysis: RCI    | Analytical Method: ASTM D 5049-90/4978-95 | Prep Method: N/A |
| QC Batch: 2433   | Date Analyzed: 2003-06-24                 | Analyzed By: JH  |
| Prep Batch: 2202 | Date Prepared: 2003-06-24                 | Prepared By: JH  |
| Analysis: RCI    | Analytical Method: S 1110                 | Prep Method: N/A |
| Analysis: RCI    | Analytical Method: SW-846 Ch. 7.1         | Prep Method: N/A |

| Parameter        | Flag | RL<br>Result  | Units | Dilution | RL   |
|------------------|------|---------------|-------|----------|------|
| Reactivity       |      | non-reactive  |       | 1        | 0.00 |
| Hydrogen Sulfide |      | <10.0         | mg/Kg | 1        | 10.0 |
| Hydrogen Cyanide |      | <2.50         | mg/Kg | 1        | 2.50 |
| Corrosivity      |      | non-corrosive | mm/yr | 1        | 0.00 |
| pH               |      | 8.10          | s.u.  | 1        | 0.00 |
| Ignitability     |      | non-ignitable |       | 1        | 0.00 |

### Sample: 11153 - New Slurry Tank

|                              |                            |                        |
|------------------------------|----------------------------|------------------------|
| Analysis: TCLP Semivolatiles | Analytical Method: S 8270C | Prep Method: TCLP 1311 |
| C Batch: 2766                | Date Analyzed: 2003-07-07  | Analyzed By: RC        |
| Prep Batch: 2510             | Date Prepared: 2003-07-03  | Prepared By: JH        |

| Parameter                            | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------------------------------|------|--------------|-------|----------|------|
| Acridine                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Cresol                               |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| p-Cresol                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 1,2-Dichloroethane                   |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Styrene                              |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 1,3-Dichlorobutadiene                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,6-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dichlorophenol                   |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Dinitrotoluene                       |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Dichlorophenoxyacetic acid           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 1,2-Dichlorobenzene                  |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,6-Trichlorophenoxypropionic acid |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dichlorophenol                   |      | <0.0500      | mg/L  | 0.005    | 10.0 |

| Surrogate                     | Flag | Result  | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|-------------------------------|------|---------|-------|----------|-----------------|---------------------|--------------------|
| 2,4-Dichlorophenol            | 1    | 0.0120  | mg/L  | 0.005    | 8.00            | 30                  | 2.83 - 110.33      |
| 2,4-Dichlorophenol-d5         | 2    | 0.00840 | mg/L  | 0.005    | 8.00            | 21                  | 0 - 82.08          |
| 1,2-Dichlorobenzene-d5        | 3    | 0.0321  | mg/L  | 0.005    | 8.00            | 80                  | 26.72 - 155        |
| 2,2',5,5'-Tetrachlorobiphenyl | 4    | 0.0248  | mg/L  | 0.005    | 8.00            | 62                  | 35.89 - 150.5      |
| 2,4,6-Trichlorophenol         | 5    | 0.0196  | mg/L  | 0.005    | 8.00            | 49                  | 0 - 204.91         |
| 2,4,6-Trichlorophenol-d14     | 6    | 0.0180  | mg/L  | 0.005    | 8.00            | 45                  | 33.98 - 168.85     |

1. Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.  
 2. Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.  
 3. Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.  
 4. Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.  
 5. Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.  
 6. Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

Sample: 11153 - New Slurry Tank

|             |                     |                    |            |              |           |
|-------------|---------------------|--------------------|------------|--------------|-----------|
| Analysis:   | TCLP Total 8 Metals | Analytical Method: | S 6010B    | Prep Method: | TCLP 1311 |
| QC Batch:   | 2501                | Date Analyzed:     | 2003-06-26 | Analyzed By: | RR        |
| Prep Batch: | 2229                | Date Prepared:     | 2003-06-24 | Prepared By: | TP        |
| Analysis:   | TCLP Total 8 Metals | Analytical Method: | S 7470A    | Prep Method: | TCLP 1311 |
| QC Batch:   | 2532                | Date Analyzed:     | 2003-06-27 | Analyzed By: | BC        |
| Prep Batch: | 2301                | Date Prepared:     | 2003-06-26 | Prepared By: | BC        |

| Parameter     | Flag | RL<br>Result | Units | Dilution | RL     |
|---------------|------|--------------|-------|----------|--------|
| TCLP Silver   |      | <0.125       | mg/L  | 1        | 0.125  |
| TCLP Arsenic  |      | 0.313        | mg/L  | 1        | 0.100  |
| TCLP Barium   |      | 2.12         | mg/L  | 1        | 0.100  |
| TCLP Cadmium  |      | <0.0500      | mg/L  | 1        | 0.0500 |
| TCLP Chromium |      | <0.100       | mg/L  | 1        | 0.100  |
| TCLP Mercury  |      | <0.0100      | mg/L  | 1        | 0.0100 |
| TCLP Lead     |      | 0.652        | mg/L  | 1        | 0.0370 |
| TCLP Selenium |      | <0.500       | mg/L  | 1        | 0.500  |

Sample: 11153 - New Slurry Tank

|             |                |                    |            |              |           |
|-------------|----------------|--------------------|------------|--------------|-----------|
| Analysis:   | TCLP Volatiles | Analytical Method: | S 8260B    | Prep Method: | TCLP 1311 |
| QC Batch:   | 2640           | Date Analyzed:     | 2003-07-01 | Analyzed By: | JG        |
| Prep Batch: | 2408           | Date Prepared:     | 2003-06-30 | Prepared By: | JG        |

| Parameter                  | Flag | RL<br>Result | Units | Dilution | RL      |
|----------------------------|------|--------------|-------|----------|---------|
| Vinyl Chloride             |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,1-Dichloroethene         |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 2-Butanone (MEK)           |      | <0.500       | mg/L  | 50       | 0.0100  |
| Chloroform                 |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Benzene                    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Chlorobenzene              |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500      | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 50.6   | mg/L  | 1        | 50.0            | 101                 | 79 - 118           |
| Toluene-d8                   |      | 50.2   | mg/L  | 1        | 50.0            | 100                 | 86 - 114           |
| 4-Bromofluorobenzene (4-BFB) |      | 47.1   | mg/L  | 1        | 50.0            | 94                  | 79 - 116           |

Sample: 11154 - Gas Rack 1

|             |      |                    |                        |              |     |
|-------------|------|--------------------|------------------------|--------------|-----|
| Analysis:   | RCI  | Analytical Method: | ASTM D 5049-90/4978-95 | Prep Method: | N/A |
| QC Batch:   | 2433 | Date Analyzed:     | 2003-06-24             | Analyzed By: | JH  |
| Prep Batch: | 2202 | Date Prepared:     | 2003-06-24             | Prepared By: | JH  |
| Analysis:   | RCI  | Analytical Method: | S 1110                 | Prep Method: | N/A |
| Analysis:   | RCI  | Analytical Method: | SW-846 Ch. 7.1         | Prep Method: | N/A |

| Parameter        | Flag | RL<br>Result  | Units | Dilution | RL   |
|------------------|------|---------------|-------|----------|------|
| Reactivity       |      | non-reactive  |       | 1        | 0.00 |
| Hydrogen Sulfide |      | <10.0         | mg/Kg | 1        | 10.0 |
| Hydrogen Cyanide |      | <2.50         | mg/Kg | 1        | 2.50 |
| Corrosivity      |      | non-corrosive | mm/yr | 1        | 0.00 |
| pH               |      | 6.10          | s.u.  | 1        | 0.00 |
| Ignitability     |      | non-ignitable |       | 1        | 0.00 |

Sample: 11154 - Gas Rack 1

Analysis: TCLP Semivolatiles  
QC Batch: 2766  
Prep Batch: 2510

Analytical Method: S 8270C  
Date Analyzed: 2003-07-07  
Date Prepared: 2003-07-03

Prep Method: TCLP 1311  
Analyzed By: RC  
Prepared By: JH

| Parameter                            | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------------------------------|------|--------------|-------|----------|------|
| Pyridine                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| o-Cresol                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| m.p-Cresol                           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachloroethane                     |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Nitrobenzene                         |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobutadiene                  |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,6-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dinitrotoluene                   |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dichlorophenoxyacetic acid       |      | <10.0        | mg/L  | 1        | 10.0 |
| Hexachlorobenzene                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <10.0        | mg/L  | 1        | 10.0 |
| Pentachlorophenol                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |

| Surrogate            | Flag | Result  | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|----------------------|------|---------|-------|----------|-----------------|---------------------|--------------------|
| 2-Fluorophenol       | 7    | 0.0128  | mg/L  | 0.005    | 8.00            | 32                  | 2.83 - 110.33      |
| Phenol-d5            | 8    | 0.00810 | mg/L  | 0.005    | 8.00            | 20                  | 0 - 82.08          |
| Nitrobenzene-d5      | 9    | 0.0436  | mg/L  | 0.005    | 8.00            | 109                 | 26.72 - 155        |
| 2-Fluorobiphenyl     | 10   | 0.0268  | mg/L  | 0.005    | 8.00            | 67                  | 35.89 - 150.5      |
| 2,4,6-Tribromophenol | 11   | 0.00180 | mg/L  | 0.005    | 8.00            | 4                   | 0 - 204.91         |
| Terphenyl-d14        | 12   | 0.0208  | mg/L  | 0.005    | 8.00            | 52                  | 33.98 - 168.85     |

Sample: 11154 - Gas Rack 1

Analysis: TCLP Total 8 Metals  
QC Batch: 2501  
Prep Batch: 2229  
Analysis: TCLP Total 8 Metals  
QC Batch: 2532  
Prep Batch: 2301

Analytical Method: S 6010B  
Date Analyzed: 2003-06-26  
Date Prepared: 2003-06-24  
Analytical Method: S 7470A  
Date Analyzed: 2003-06-27  
Date Prepared: 2003-06-26

Prep Method: TCLP 1311  
Analyzed By: RR  
Prepared By: TP  
Prep Method: TCLP 1311  
Analyzed By: BC  
Prepared By: BC

<sup>7</sup>Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>8</sup>Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>9</sup>Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>10</sup>Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>11</sup>Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>12</sup>Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

| Parameter     | Flag | RL<br>Result | Units | Dilution | RL     |
|---------------|------|--------------|-------|----------|--------|
| TCLP Silver   |      | <0.125       | mg/L  | 1        | 0.125  |
| TCLP Arsenic  |      | 0.237        | mg/L  | 1        | 0.100  |
| TCLP Barium   |      | 3.35         | mg/L  | 1        | 0.100  |
| TCLP Cadmium  |      | <0.0500      | mg/L  | 1        | 0.0500 |
| TCLP Chromium |      | <0.100       | mg/L  | 1        | 0.100  |
| TCLP Mercury  |      | <0.0100      | mg/L  | 1        | 0.0100 |
| TCLP Lead     |      | 0.0950       | mg/L  | 1        | 0.0370 |
| TCLP Selenium |      | 0.577        | mg/L  | 1        | 0.500  |

Sample: 11154 - Gas Rack 1

Analysis: TCLP Volatiles  
QC Batch: 2640  
Prep Batch: 2408

Analytical Method: S 8260B  
Date Analyzed: 2003-07-01  
Date Prepared: 2003-06-30

Prep Method: TCLP 1311  
Analyzed By: JG  
Prepared By: JG

| Parameter                  | Flag | RL<br>Result | Units | Dilution | RL      |
|----------------------------|------|--------------|-------|----------|---------|
| Vinyl Chloride             |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,1-Dichloroethene         |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 2-Butanone (MEK)           |      | <0.500       | mg/L  | 50       | 0.0100  |
| Chloroform                 |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Benzene                    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Chlorobenzene              |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500      | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 51.3   | mg/L  | 1        | 50.0            | 103                 | 79 - 118           |
| Toluene-d8                   |      | 49.2   | mg/L  | 1        | 50.0            | 98                  | 86 - 114           |
| 4-Bromofluorobenzene (4-BFB) |      | 47.1   | mg/L  | 1        | 50.0            | 94                  | 79 - 116           |

Sample: 11155 - Gas Rack 2

Analysis: RCI  
QC Batch: 2433  
Prep Batch: 2202  
Analysis: RCI  
Analysis: RCI

Analytical Method: ASTM D 5049-90/4978-95  
Date Analyzed: 2003-06-24  
Date Prepared: 2003-06-24  
Analytical Method: S 1110  
Analytical Method: SW-846 Ch. 7.1

Prep Method: N/A  
Analyzed By: JH  
Prepared By: JH  
Prep Method: N/A  
Prep Method: N/A

| Parameter        | Flag | RL<br>Result  | Units | Dilution | RL   |
|------------------|------|---------------|-------|----------|------|
| Reactivity       |      | non-reactive  |       | 1        | 0.00 |
| Hydrogen Sulfide |      | <10.0         | mg/Kg | 1        | 10.0 |
| Hydrogen Cyanide |      | <2.50         | mg/Kg | 1        | 2.50 |
| Corrosivity      |      | non-corrosive | mm/yr | 1        | 0.00 |
| pH               |      | 7.90          | s.u.  | 1        | 0.00 |
| Ignitability     |      | non-ignitable |       | 1        | 0.00 |

Sample: 11155 - Gas Rack 2

|                              |                            |                        |
|------------------------------|----------------------------|------------------------|
| Analysis: TCLP Semivolatiles | Analytical Method: S 8270C | Prep Method: TCLP 1311 |
| QC Batch: 2766               | Date Analyzed: 2003-07-07  | Analyzed By: RC        |
| Prep Batch: 2510             | Date Prepared: 2003-07-03  | Prepared By: JH        |

| Parameter                            | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------------------------------|------|--------------|-------|----------|------|
| Pyridine                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| o-Cresol                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| m,p-Cresol                           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachloroethane                     |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Nitrobenzene                         |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobutadiene                  |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,6-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dinitrotoluene                   |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobenzene                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Pentachlorophenol                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |

| Surrogate            | Flag          | Result  | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|----------------------|---------------|---------|-------|----------|-----------------|---------------------|--------------------|
| 2-Fluorophenol       | <sup>13</sup> | 0.00705 | mg/L  | 0.005    | 8.00            | 18                  | 2.83 - 110.33      |
| Phenol-d5            | <sup>14</sup> | 0.00545 | mg/L  | 0.005    | 8.00            | 14                  | 0 - 82.08          |
| Nitrobenzene-d5      | <sup>15</sup> | 0.0234  | mg/L  | 0.005    | 8.00            | 58                  | 26.72 - 155        |
| 2-Fluorobiphenyl     | <sup>16</sup> | 0.0180  | mg/L  | 0.005    | 8.00            | 45                  | 35.89 - 150.5      |
| 2,4,6-Tribromophenol | <sup>17</sup> | 0.00115 | mg/L  | 0.005    | 8.00            | 3                   | 0 - 204.91         |
| Terphenyl-d14        | <sup>18</sup> | 0.0150  | mg/L  | 0.005    | 8.00            | 38                  | 33.98 - 168.85     |

Sample: 11155 - Gas Rack 2

|                               |                            |                        |
|-------------------------------|----------------------------|------------------------|
| Analysis: TCLP Total 8 Metals | Analytical Method: S 6010B | Prep Method: TCLP 1311 |
| QC Batch: 2501                | Date Analyzed: 2003-06-26  | Analyzed By: RR        |
| Prep Batch: 2229              | Date Prepared: 2003-06-24  | Prepared By: TP        |
| Analysis: TCLP Total 8 Metals | Analytical Method: S 7470A | Prep Method: TCLP 1311 |
| QC Batch: 2532                | Date Analyzed: 2003-06-27  | Analyzed By: BC        |
| Prep Batch: 2301              | Date Prepared: 2003-06-26  | Prepared By: BC        |

| Parameter     | Flag | RL<br>Result | Units | Dilution | RL     |
|---------------|------|--------------|-------|----------|--------|
| TCLP Silver   |      | <0.125       | mg/L  | 1        | 0.125  |
| TCLP Arsenic  |      | 0.461        | mg/L  | 1        | 0.100  |
| TCLP Barium   |      | 2.63         | mg/L  | 1        | 0.100  |
| TCLP Cadmium  |      | <0.0500      | mg/L  | 1        | 0.0500 |
| TCLP Chromium |      | <0.100       | mg/L  | 1        | 0.100  |
| TCLP Mercury  |      | <0.0100      | mg/L  | 1        | 0.0100 |
| TCLP Lead     |      | 0.0920       | mg/L  | 1        | 0.0370 |

continued ...

<sup>13</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>14</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>15</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>16</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>17</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

<sup>18</sup> Changed spike amount from 60 to 8 due to surrogate concentration being 10% less when when extracted.

sample 11155 continued ...

| Parameter     | Flag | RL<br>Result | Units | Dilution | RL    |
|---------------|------|--------------|-------|----------|-------|
| TCLP Selenium |      | 0.916        | mg/L  | 1        | 0.500 |

Sample: 11155 - Gas Rack 2

Analysis: TCLP Volatiles      Analytical Method: S 8260B      Prep Method: TCLP 1311  
QC Batch: 2640      Date Analyzed: 2003-07-01      Analyzed By: JG  
Prep Batch: 2408      Date Prepared: 2003-06-30      Prepared By: JG

| Parameter                  | Flag | RL<br>Result | Units | Dilution | RL      |
|----------------------------|------|--------------|-------|----------|---------|
| Vinyl Chloride             |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,1-Dichloroethene         |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 2-Butanone (MEK)           |      | <0.500       | mg/L  | 50       | 0.0100  |
| Chloroform                 |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Benzene                    |      | 0.0600       | mg/L  | 50       | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Chlorobenzene              |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500      | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 49.7   | mg/L  | 1        | 50.0            | 99                  | 79 - 118           |
| Toluene-d8                   |      | 50.5   | mg/L  | 1        | 50.0            | 101                 | 86 - 114           |
| 4-Bromofluorobenzene (4-BFB) |      | 48.8   | mg/L  | 1        | 50.0            | 98                  | 79 - 116           |

Method Blank (1)      QC Batch: 2501

| Parameter     | Flag | Result  | Units | RL    |
|---------------|------|---------|-------|-------|
| TCLP Silver   |      | <0.125  | mg/L  | 0.125 |
| TCLP Arsenic  |      | <0.100  | mg/L  | 0.1   |
| TCLP Barium   |      | <0.100  | mg/L  | 0.1   |
| TCLP Cadmium  |      | <0.0500 | mg/L  | 0.05  |
| TCLP Chromium |      | <0.100  | mg/L  | 0.1   |
| TCLP Lead     |      | <0.0370 | mg/L  | 0.037 |
| TCLP Selenium |      | <0.500  | mg/L  | 0.5   |

Method Blank (1)      QC Batch: 2532

| Parameter    | Flag | Result  | Units | RL   |
|--------------|------|---------|-------|------|
| TCLP Mercury |      | <0.0100 | mg/L  | 0.01 |



Method Blank (1) QC Batch: 2640

| Parameter                  | Flag | Result  | Units | RL    |
|----------------------------|------|---------|-------|-------|
| Vinyl Chloride             |      | <0.0500 | mg/L  | 0.001 |
| 1,1-Dichloroethene         |      | <0.0500 | mg/L  | 0.001 |
| 2-Butanone (MEK)           |      | <0.500  | mg/L  | 0.01  |
| Chloroform                 |      | <0.0500 | mg/L  | 0.001 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500 | mg/L  | 0.001 |
| Benzene                    |      | <0.0500 | mg/L  | 0.001 |
| Carbon Tetrachloride       |      | <0.0500 | mg/L  | 0.001 |
| Trichloroethene (TCE)      |      | <0.0500 | mg/L  | 0.001 |
| Tetrachloroethene (PCE)    |      | <0.0500 | mg/L  | 0.001 |
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.001 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 49.8   | mg/L  | 1        | 50.0         | 100              | 79 - 118        |
| Toluene-d8                   |      | 49.6   | mg/L  | 1        | 50.0         | 99               | 86 - 114        |
| 4-Bromofluorobenzene (4-BFB) |      | 47.3   | mg/L  | 1        | 50.0         | 95               | 79 - 116        |

Method Blank (1) QC Batch: 2766

| Parameter                            | Flag | Result  | Units | RL |
|--------------------------------------|------|---------|-------|----|
| Pyridine                             |      | <0.0500 | mg/L  | 10 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500 | mg/L  | 10 |
| o-Cresol                             |      | <0.0500 | mg/L  | 10 |
| m,p-Cresol                           |      | <0.0500 | mg/L  | 10 |
| Hexachloroethane                     |      | <0.0500 | mg/L  | 10 |
| Nitrobenzene                         |      | <0.0500 | mg/L  | 10 |
| Hexachlorobutadiene                  |      | <0.0500 | mg/L  | 10 |
| 2,4,6-Trichlorophenol                |      | <0.0500 | mg/L  | 10 |
| 2,4,5-Trichlorophenol                |      | <0.0500 | mg/L  | 10 |
| 2,4-Dinitrotoluene                   |      | <0.0500 | mg/L  | 10 |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500 | mg/L  | 10 |
| Hexachlorobenzene                    |      | <0.0500 | mg/L  | 10 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500 | mg/L  | 10 |
| Pentachlorophenol                    |      | <0.0500 | mg/L  | 10 |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 2-Fluorophenol       |      | 0.110  | mg/L  | 0.005    | 60.0         | 37               | 2.83 - 110.33   |
| Phenol-d5            |      | 0.0903 | mg/L  | 0.005    | 60.0         | 30               | 0 - 82.08       |
| Nitrobenzene-d5      |      | 0.204  | mg/L  | 0.005    | 60.0         | 68               | 26.72 - 155     |
| 2-Fluorobiphenyl     |      | 0.175  | mg/L  | 0.005    | 60.0         | 58               | 35.89 - 150.5   |
| 2,4,6-Tribromophenol |      | 0.318  | mg/L  | 0.005    | 60.0         | 106              | 0 - 204.91      |
| Terphenyl-d14        |      | 0.205  | mg/L  | 0.005    | 60.0         | 68               | 33.98 - 168.85  |

Duplicate (1) QC Batch: 2433

| Param            | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------|------------------|---------------|-------|----------|-----|-----------|
| Reactivity       | non-reactive     | non-reactive  |       | 1        | 0   |           |
| Hydrogen Sulfide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Hydrogen Cyanide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Corrosivity      | non-corrosive    | non-corrosive | mm/yr | 1        | 0   | 20        |
| pH               | 7.90             | 7.90          | s.u.  | 1        | 0   | 20        |
| Ignitability     | non-ignitable    | non-ignitable |       | 1        | 0   | 20        |

Laboratory Control Spike (LCS-1) QC Batch: 2501

| Param         | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Silver   | 1.18       | 1.19        | mg/L  | 1    | 1.25         | <0.00780      | 94   | 1   | 75 - 125   | 20        |
| TCLP Arsenic  | 4.41       | 4.46        | mg/L  | 1    | 5.00         | <0.0590       | 88   | 1   | 75 - 125   | 20        |
| TCLP Barium   | 10.5       | 10.5        | mg/L  | 1    | 10.0         | <0.00340      | 105  | 0   | 75 - 125   | 20        |
| TCLP Cadmium  | 2.31       | 2.29        | mg/L  | 1    | 2.50         | <0.00270      | 92   | 1   | 75 - 125   | 20        |
| TCLP Chromium | 0.965      | 0.970       | mg/L  | 1    | 1.00         | <0.00660      | 96   | 0   | 75 - 125   | 20        |
| TCLP Lead     | 4.86       | 4.73        | mg/L  | 1    | 5.00         | <0.0370       | 97   | 3   | 75 - 125   | 20        |
| TCLP Selenium | 4.57       | 4.62        | mg/L  | 1    | 5.00         | <0.100        | 91   | 1   | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 2532

| Param        | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Mercury | 0.0508     | 0.0511      | mg/L  | 1    | 0.0500       | <0.000200     | 102  | 0   | 80 - 120   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 2640

| Param                      | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Vinyl Chloride             | 3.97       | 3.96        | mg/L  | 50   | 0.100        | <0.00845      | 79   | 0   | 55 - 131   | 20        |
| 1,1-Dichloroethene         | 4.64       | 4.62        | mg/L  | 50   | 0.100        | <0.00790      | 93   | 0   | 81 - 119   | 20        |
| 2-Butanone (MEK)           | 3.74       | 3.79        | mg/L  | 50   | 0.100        | <0.0185       | 75   | 1   | 41 - 157   | 20        |
| Chloroform                 | 4.84       | 4.80        | mg/L  | 50   | 0.100        | <0.00480      | 97   | 1   | 79 - 126   | 20        |
| 1,2-Dichloroethane (EDC)   | 5.13       | 5.18        | mg/L  | 50   | 0.100        | <0.00470      | 103  | 1   | 72 - 131   | 20        |
| Benzene                    | 5.04       | 5.08        | mg/L  | 50   | 0.100        | <0.00520      | 101  | 1   | 87 - 118   | 20        |
| Carbon Tetrachloride       | 5.04       | 5.07        | mg/L  | 50   | 0.100        | <0.00390      | 101  | 0   | 43 - 162   | 20        |
| Trichloroethene (TCE)      | 4.84       | 4.82        | mg/L  | 50   | 0.100        | <0.00585      | 97   | 0   | 78 - 110   | 20        |
| Tetrachloroethene (PCE)    | 2.86       | 2.86        | mg/L  | 50   | 0.100        | <0.0205       | 57   | 0   | 48 - 81    | 20        |
| Chlorobenzene              | 5.06       | 5.04        | mg/L  | 50   | 0.100        | <0.00300      | 101  | 0   | 90 - 111   | 20        |
| 1,4-Dichlorobenzene (para) | 4.86       | 4.86        | mg/L  | 50   | 0.100        | <0.00425      | 97   | 0   | 81 - 115   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Dibromofluoromethane         | 50.1       | 49.8        | mg/L  | 1    | 50.0         | 100      | 100       | 79 - 118   |
| Toluene-d8                   | 48.8       | 49.3        | mg/L  | 1    | 50.0         | 98       | 99        | 86 - 114   |
| 4-Bromofluorobenzene (4-BFB) | 48.3       | 48.0        | mg/L  | 1    | 50.0         | 97       | 96        | 79 - 116   |

Laboratory Control Spike (LCS-1) QC Batch: 2766

| Param                                | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit     | RPD Limit |
|--------------------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|----------------|-----------|
| Pyridine                             | 23.0       | 21.9        | mg/L  | 1    | 80.0         | <2.41         | 29   | 5   | 12.6 - 50.02   | 20        |
| 1,4-Dichlorobenzene (para)           | 54.7       | 54.3        | mg/L  | 1    | 80.0         | <1.93         | 68   | 1   | 13.67 - 139.56 | 20        |
| o-Cresol                             | 48.2       | 47.9        | mg/L  | 1    | 80.0         | <1.46         | 60   | 1   | 18.58 - 114.05 | 20        |
| m,p-Cresol                           | 108        | 109         | mg/L  | 1    | 80.0         | <1.19         | 135  | 1   | 10.62 - 252.59 | 20        |
| Hexachloroethane                     | 59.5       | 59.0        | mg/L  | 1    | 80.0         | <1.91         | 74   | 1   | 25.17 - 146.78 | 20        |
| Nitrobenzene                         | 71.6       | 73.7        | mg/L  | 1    | 80.0         | <1.50         | 90   | 3   | 26.78 - 144.08 | 20        |
| Hexachlorobutadiene                  | 58.1       | 58.3        | mg/L  | 1    | 80.0         | <1.57         | 73   | 0   | 0 - 171.61     | 20        |
| 2,4,6-Trichlorophenol                | 58.6       | 58.1        | mg/L  | 1    | 80.0         | <1.64         | 73   | 1   | 19.23 - 144.93 | 20        |
| 2,4,5-Trichlorophenol                | 61.6       | 63.6        | mg/L  | 1    | 80.0         | <1.95         | 77   | 3   | 40.38 - 144.67 | 20        |
| 2,4-Dinitrotoluene                   | 65.6       | 65.5        | mg/L  | 1    | 80.0         | <2.09         | 82   | 0   | 18.51 - 158.26 | 20        |
| 2,4-Dichlorophenoxyacetic acid       | 118        | 116         | mg/L  | 1    | 80.0         | 0             | 148  | 2   | 0 - 165.81     | 20        |
| Hexachlorobenzene                    | 68.7       | 68.0        | mg/L  | 1    | 80.0         | <1.63         | 86   | 1   | 2.35 - 182.77  | 20        |
| 2,4,5-Trichlorophenoxypropionic acid | 112        | 114         | mg/L  | 1    | 80.0         | 0             | 140  | 2   | 22.1 - 144.74  | 20        |
| Pentachlorophenol                    | 69.7       | 71.2        | mg/L  | 1    | 80.0         | <3.04         | 87   | 2   | 0 - 156.72     | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            |      | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit     |
|----------------------|------|------------|-------------|-------|------|--------------|----------|-----------|----------------|
| 2-Fluorophenol       | 1920 | 2.87       | 2.86        | mg/L  | 1    | 8.00         | 36       | 36        | 2.83 - 110.33  |
| Phenol-d5            | 2122 | 2.34       | 2.39        | mg/L  | 1    | 8.00         | 29       | 30        | 0 - 82.08      |
| Nitrobenzene-d5      | 2324 | 8.30       | 8.27        | mg/L  | 1    | 8.00         | 104      | 103       | 26.72 - 155    |
| 2-Fluorobiphenyl     | 2526 | 5.34       | 5.37        | mg/L  | 1    | 8.00         | 67       | 67        | 35.89 - 150.5  |
| 2,4,6-Tribromophenol | 2728 | 0.580      | 1.03        | mg/L  | 1    | 8.00         | 7        | 13        | 0 - 204.91     |
| Terphenyl-d14        | 2930 | 4.93       | 4.94        | mg/L  | 1    | 8.00         | 62       | 62        | 33.98 - 168.85 |

Matrix Spike (MS-1) QC Batch: 2501

| Param         | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Silver   | 1.18      | 1.20       | mg/L  | 1    | 1.25         | 0.015         | 93   | 2   | 75 - 125   | 20        |
| TCLP Arsenic  | 5.16      | 5.22       | mg/L  | 1    | 5.00         | 0.461         | 94   | 1   | 75 - 125   | 20        |
| TCLP Barium   | 12.2      | 12.3       | mg/L  | 1    | 10.0         | 2.63          | 96   | 1   | 75 - 125   | 20        |
| TCLP Cadmium  | 2.30      | 2.30       | mg/L  | 1    | 2.50         | 0.028         | 91   | 0   | 75 - 125   | 20        |
| TCLP Chromium | 0.972     | 0.958      | mg/L  | 1    | 1.00         | 0.013         | 96   | 1   | 75 - 125   | 20        |
| TCLP Lead     | 4.74      | 4.86       | mg/L  | 1    | 5.00         | 0.092         | 93   | 2   | 75 - 125   | 20        |
| TCLP Selenium | 5.35      | 5.10       | mg/L  | 1    | 5.00         | 0.916         | 89   | 5   | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2532

- <sup>19</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>20</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>21</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>22</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>23</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>24</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>25</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>26</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>27</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>28</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>29</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>30</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.

| Param        | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Mercury | 0.0515    | 0.0497     | mg/L  | 1    | 0.0500       | <0.000200     | 103  | 4   | 80 - 120   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2640

| Param                      | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Vinyl Chloride             | 3.89      | 3.95       | mg/L  | 50   | 0.100        | <0.00845      | 78   | 2   | 58 - 136   | 20        |
| 1,1-Dichloroethene         | 4.75      | 4.78       | mg/L  | 50   | 0.100        | <0.00790      | 95   | 1   | 81 - 125   | 20        |
| 2-Butanone (MEK)           | 3.60      | 3.54       | mg/L  | 50   | 0.100        | <0.0185       | 72   | 2   | 33 - 122   | 20        |
| Chloroform                 | 4.88      | 4.89       | mg/L  | 50   | 0.100        | <0.00480      | 98   | 0   | 81 - 130   | 20        |
| 1,2-Dichloroethane (EDC)   | 5.45      | 5.49       | mg/L  | 50   | 0.100        | <0.00470      | 109  | 1   | 76 - 137   | 20        |
| Benzene                    | 5.14      | 5.22       | mg/L  | 50   | 0.100        | <0.00520      | 103  | 2   | 88 - 121   | 20        |
| Carbon Tetrachloride       | 5.40      | 5.43       | mg/L  | 50   | 0.100        | <0.00390      | 108  | 0   | 56 - 156   | 20        |
| Trichloroethene (TCE)      | 4.76      | 4.84       | mg/L  | 50   | 0.100        | <0.00585      | 95   | 2   | 77 - 111   | 20        |
| Tetrachloroethene (PCE)    | 2.81      | 2.80       | mg/L  | 50   | 0.100        | <0.0205       | 56   | 0   | 48 - 80    | 20        |
| Chlorobenzene              | 5.11      | 5.13       | mg/L  | 50   | 0.100        | <0.00300      | 102  | 0   | 89 - 113   | 20        |
| 1,4-Dichlorobenzene (para) | 4.94      | 4.93       | mg/L  | 50   | 0.100        | <0.00425      | 99   | 0   | 82 - 113   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Dibromofluoromethane         | 50.2      | 51.0       | mg/L  | 1    | 50           | 100     | 102      | 79 - 118   |
| Toluene-d8                   | 49.9      | 49.8       | mg/L  | 1    | 50           | 100     | 100      | 86 - 114   |
| 4-Bromofluorobenzene (4-BFB) | 46.5      | 46.0       | mg/L  | 1    | 50           | 93      | 92       | 79 - 116   |

Matrix Spike (MS-1) QC Batch: 2766

| Param                                | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit     | RPD Limit |
|--------------------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|----------------|-----------|
| Pyridine                             | 14.5      | 15.2       | mg/L  | 1    | 80.0         | <2.41         | 18   | 5   | 12.6 - 50.02   | 20        |
| 1,4-Dichlorobenzene (para)           | 57.5      | 58.2       | mg/L  | 1    | 80.0         | <1.93         | 72   | 1   | 13.67 - 139.56 | 20        |
| o-Cresol                             | 46.0      | 46.2       | mg/L  | 1    | 80.0         | <1.46         | 58   | 0   | 18.58 - 114.05 | 20        |
| m,p-Cresol                           | 96.7      | 97.6       | mg/L  | 1    | 80.0         | <1.19         | 121  | 1   | 10.62 - 252.59 | 20        |
| Hexachloroethane                     | 63.8      | 64.4       | mg/L  | 1    | 80.0         | <1.91         | 80   | 1   | 25.17 - 146.78 | 20        |
| Nitrobenzene                         | 75.3      | 76.2       | mg/L  | 1    | 80.0         | <1.50         | 94   | 1   | 26.78 - 144.08 | 20        |
| Hexachlorobutadiene                  | 59.7      | 61.6       | mg/L  | 1    | 80.0         | <1.57         | 75   | 3   | 0 - 171.61     | 20        |
| 2,4,6-Trichlorophenol                | 57.8      | 56.5       | mg/L  | 1    | 80.0         | <1.64         | 72   | 2   | 19.23 - 144.93 | 20        |
| 2,4,5-Trichlorophenol                | 61.4      | 61.1       | mg/L  | 1    | 80.0         | <1.95         | 77   | 0   | 40.38 - 144.67 | 20        |
| 2,4-Dinitrotoluene                   | 62.1      | 61.3       | mg/L  | 1    | 80.0         | <2.09         | 78   | 1   | 18.51 - 158.26 | 20        |
| 2,4-Dichlorophenoxyacetic acid       | 110       | 107        | mg/L  | 1    | 80.0         | 0             | 138  | 3   | 0 - 165.81     | 20        |
| Hexachlorobenzene                    | 63.0      | 63.1       | mg/L  | 1    | 80.0         | <1.63         | 79   | 0   | 2.35 - 182.77  | 20        |
| 2,4,5-Trichlorophenoxypropionic acid | 113       | 105        | mg/L  | 1    | 80.0         | 0             | 141  | 7   | 22.1 - 144.74  | 20        |
| Pentachlorophenol                    | 67.1      | 66.5       | mg/L  | 1    | 80.0         | <3.04         | 84   | 1   | 0 - 156.72     | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

matrix spikes continued ...

| Surrogate            |      | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit  |
|----------------------|------|--------------|---------------|-------|------|-----------------|------------|-------------|----------------|
| Surrogate            |      | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit  |
| 2-Fluorophenol       | 3132 | 2.70         | 2.69          | mg/L  | 1    | 8               | 34         | 34          | 2.83 - 110.33  |
| Phenol-d5            | 3334 | 1.88         | 2.10          | mg/L  | 1    | 8               | 24         | 26          | 0 - 82.08      |
| Nitrobenzene-d5      | 3536 | 8.37         | 9.19          | mg/L  | 1    | 8               | 105        | 115         | 26.72 - 155    |
| 2-Fluorobiphenyl     | 3738 | 5.38         | 5.33          | mg/L  | 1    | 8               | 67         | 67          | 35.89 - 150.5  |
| 2,4,6-Tribromophenol | 3940 | 0.00         | 0.590         | mg/L  | 1    | 8               | 0          | 7           | 0 - 204.91     |
| Terphenyl-d14        | 4142 | 4.00         | 4.07          | mg/L  | 1    | 8               | 50         | 51          | 33.98 - 168.85 |

Standard (ICV-1) QC Batch: 2501

| Param         | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Silver   | 43   | mg/L  | 0.125                 | 0.125                  | 100                         | 90 - 110                      | 2003-06-26       |
| TCLP Arsenic  |      | mg/L  | 1.00                  | 0.950                  | 95                          | 90 - 110                      | 2003-06-26       |
| TCLP Barium   | 44   | mg/L  | 1.00                  | 0.989                  | 99                          | 90 - 110                      | 2003-06-26       |
| TCLP Cadmium  | 45   | mg/L  | 1.00                  | 0.970                  | 97                          | 90 - 110                      | 2003-06-26       |
| TCLP Chromium | 46   | mg/L  | 1.00                  | 0.975                  | 98                          | 90 - 110                      | 2003-06-26       |
| TCLP Lead     |      | mg/L  | 1.00                  | 0.995                  | 100                         | 90 - 110                      | 2003-06-26       |
| TCLP Selenium |      | mg/L  | 1.00                  | 0.950                  | 95                          | 90 - 110                      | 2003-06-26       |

Standard (CCV-1) QC Batch: 2501

| Param         | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Silver   | 47   | mg/L  | 0.125                 | 0.118                  | 94                          | 90 - 110                      | 2003-06-26       |
| TCLP Arsenic  |      | mg/L  | 1.00                  | 0.970                  | 97                          | 90 - 110                      | 2003-06-26       |
| TCLP Barium   | 48   | mg/L  | 1.00                  | 0.978                  | 98                          | 90 - 110                      | 2003-06-26       |
| TCLP Cadmium  | 49   | mg/L  | 1.00                  | 0.965                  | 96                          | 90 - 110                      | 2003-06-26       |
| TCLP Chromium | 50   | mg/L  | 1.00                  | 0.988                  | 99                          | 90 - 110                      | 2003-06-26       |
| TCLP Lead     |      | mg/L  | 1.00                  | 0.968                  | 97                          | 90 - 110                      | 2003-06-26       |

continued ...

- <sup>31</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>32</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>33</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>34</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>35</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>36</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>37</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>38</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>39</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>40</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>41</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>42</sup>Changed spike amount from 80 to 8 due to surrogate concentration being 10% less when when extracted.  
<sup>43</sup>Changed spike amount from 0.25 to 0.125 due to concentration in spiking solution.  
<sup>44</sup>Changed spike amount from 2 to 1 due to concentration in spiking solution.  
<sup>45</sup>Changed spike amount from 0.5 to 1 due to concentration in spiking solution.  
<sup>46</sup>Changed spike amount from 0.2 to 1 due to concentration in spiking solution.  
<sup>47</sup>Changed spike amount from 0.25 to 0.125 due to concentration in spiking solution.  
<sup>48</sup>Changed spike amount from 2 to 1 due to concentration in spiking solution.concentration in spiking solution.concentration in spiking solu-  
tion.concentration in spiking solution.  
<sup>49</sup>Changed spike amount from 0.5 to 1 due to  
<sup>50</sup>Changed spike amount from 0.2 to 1 due to concentration in spiking solution.

standard continued ...

| Param         | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Selenium |      | mg/L  | 1.00                  | 0.987                  | 99                          | 90 - 110                      | 2003-06-26       |

Standard (ICV-1) QC Batch: 2532

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Mercury |      | mg/L  | 0.00500               | 0.00515                | 103                         | 90 - 110                      | 2003-06-27       |

Standard (CCV-1) QC Batch: 2532

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Mercury |      | mg/L  | 0.00500               | 0.00451                | 90                          | 80 - 120                      | 2003-06-27       |

Standard (CCV-1) QC Batch: 2640

| Param                      | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Vinyl Chloride             |      | mg/L  | 50.0                  | 50.0                   | 100                         | 80 - 120                      | 2003-07-01       |
| 1,1-Dichloroethene         |      | mg/L  | 50.0                  | 51.0                   | 102                         | 80 - 120                      | 2003-07-01       |
| 2-Butanone (MEK)           | 51   | mg/L  | 50.0                  | 37.0                   | 74                          | 80 - 120                      | 2003-07-01       |
| Chloroform                 |      | mg/L  | 50.0                  | 50.0                   | 100                         | 80 - 120                      | 2003-07-01       |
| 1,2-Dichloroethane (EDC)   |      | mg/L  | 50.0                  | 51.0                   | 102                         | 80 - 120                      | 2003-07-01       |
| Benzene                    |      | mg/L  | 50.0                  | 53.0                   | 106                         | 80 - 120                      | 2003-07-01       |
| Carbon Tetrachloride       |      | mg/L  | 50.0                  | 57.0                   | 114                         | 80 - 120                      | 2003-07-01       |
| Trichloroethene (TCE)      |      | mg/L  | 50.0                  | 54.0                   | 108                         | 80 - 120                      | 2003-07-01       |
| Tetrachloroethene (PCE)    | 52   | mg/L  | 50.0                  | 35.0                   | 70                          | 80 - 120                      | 2003-07-01       |
| Chlorobenzene              |      | mg/L  | 50.0                  | 52.0                   | 104                         | 80 - 120                      | 2003-07-01       |
| 1,4-Dichlorobenzene (para) |      | mg/L  | 50.0                  | 51.0                   | 102                         | 80 - 120                      | 2003-07-01       |

Standard (CCV-1) QC Batch: 2766

| Param                      | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Pyridine                   |      | mg/L  | 60.0                  | 65.4                   | 109                         | 80 - 120                      | 2003-07-07       |
| 1,4-Dichlorobenzene (para) |      | mg/L  | 60.0                  | 58.2                   | 97                          | 80 - 120                      | 2003-07-07       |
| o-Cresol                   |      | mg/L  | 60.0                  | 67.6                   | 113                         | 80 - 120                      | 2003-07-07       |
| m,p-Cresol                 |      | mg/L  | 60.0                  | 70.4                   | 117                         | 80 - 120                      | 2003-07-07       |
| Hexachloroethane           |      | mg/L  | 60.0                  | 67.2                   | 112                         | 80 - 120                      | 2003-07-07       |
| Nitrobenzene               |      | mg/L  | 60.0                  | 71.8                   | 120                         | 80 - 120                      | 2003-07-07       |
| Hexachlorobutadiene        |      | mg/L  | 60.0                  | 61.1                   | 102                         | 80 - 120                      | 2003-07-07       |
| 2,4,6-Trichlorophenol      |      | mg/L  | 60.0                  | 61.9                   | 103                         | 80 - 120                      | 2003-07-07       |
| 2,4,5-Trichlorophenol      |      | mg/L  | 60.0                  | 64.1                   | 107                         | 80 - 120                      | 2003-07-07       |

continued ...

<sup>51</sup>average of all ccv analytes=98 which is within acceptable limits showing analysis to be in control.

<sup>52</sup>average of all ccv analytes=98 which is within acceptable limits showing analysis to be in control.

*standard continued ...*

| Param                                | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| 2,4-Dinitrotoluene                   |      | mg/L  | 60.0                  | 63.2                   | 105                         | 80 - 120                      | 2003-07-07       |
| 2,4-Dichlorophenoxyacetic acid       |      | mg/L  | 60.0                  | 63.9                   | 106                         | 80 - 120                      | 2003-07-07       |
| Hexachlorobenzene                    |      | mg/L  | 60.0                  | 61.7                   | 103                         | 80 - 120                      | 2003-07-07       |
| 2,4,5-Trichlorophenoxypropionic acid |      | mg/L  | 60.0                  | 64.9                   | 108                         | 80 - 120                      | 2003-07-07       |
| Pentachlorophenol                    |      | mg/L  | 60.0                  | 69.1                   | 115                         | 80 - 120                      | 2003-07-07       |

| Surrogate            | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|----------------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| 2-Fluorophenol       |      | 61.2   | mg/L  | 1        | 60.0            | 102                 | 80 - 120          |
| Phenol-d5            |      | 67.2   | mg/L  | 1        | 60.0            | 112                 | 80 - 120          |
| Nitrobenzene-d5      |      | 69.1   | mg/L  | 1        | 60.0            | 115                 | 80 - 120          |
| 2-Fluorobiphenyl     |      | 62.0   | mg/L  | 1        | 60.0            | 103                 | 80 - 120          |
| 2,4,6-Tribromophenol |      | 54.8   | mg/L  | 1        | 60.0            | 91                  | 80 - 120          |
| Terphenyl-d14        |      | 59.3   | mg/L  | 1        | 60.0            | 99                  | 80 - 120          |

155 AcCutchson, Suite H  
El Paso, Texas 79932  
Tel (915) 585-3443  
Fax (915) 585-4942  
1 (800) 588-3443

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 5062419

Phone #:

Fax #:

11

over

Project Name:

Signature

Signature

[illegible]

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: . Time:

Date: - Time:

Submission of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

CHART COPY

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

REMARKS:

**LAB USE ONLY**

Inlact  $\therefore Y \neq N$

Headspace

Temp. 11.5

Log-In Review

Carrier #



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

RECEIVED State of New Mexico  
Energy Minerals and Natural Resources  
AUG 01 2003  
Oil Conservation Division  
Environmental Bureau  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003  
Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

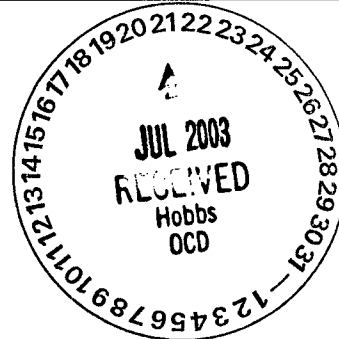
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                              | 4. Generator Navajo Refining    |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5. Originating Site Artesia, NM |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6. Transporter D & J Waste      |
| 7. Location of Material (Street Address or ULSTR) 501 East Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8. State New Mexico             |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved<br><br>All transporters must certify the wastes delivered are only those consigned for transport. |                                 |

### BRIEF DESCRIPTION OF MATERIAL:

RE: 07-22-03C

Gas Oil Sludge.

Attached is Non-Exempt waste form and Analytical results.



Estimated Volume 1000 yards Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers TITLE: Clerical DATE: 07-22-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

(This space for State Use)

APPROVED BY: Ed Johnson TITLE: ENVIRO ENGR DATE: 7-29-03  
APPROVED BY: Monty Giff TITLE: Environmental Geologist DATE: 7/22/03

072203-5

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 E. Main

GENERATING SITE: Navajo Refining Co.

COUNTY: Eddie

STATE: NM

TYPE OF WASTE: Gas oil sludge

ESTIMATED VOLUME: 1000 yards

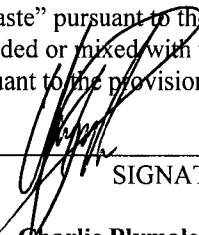
GENERATING PROCESS: Gas Oil/Rust from cleanout of 400 TK

REMARKS: This material is 90% rust and scale

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: D & J in a 20 yard roll off bin

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: 

SIGNATURE

NAME: Charlie Plymale

PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 7/21/03



## REFINING COMPANY, L.P.

**FAX**

(505) 746-5283 DIV. ORDERS  
(505) 746-5481 TRUCKING  
(505) 746-5456 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159  
TELEPHONE (505) 748-3311

**FAX**

(505) 746-5418 ACCOUNTING  
(505) 746-5451 EXEC/MKTG  
(505) 746-5421 ENGINEERING  
(505) 746-5480 PIPELINE

July 22, 2003

Ken Marsh  
CRI  
P.O. Box 388  
Hobbs, NM 88214

Ken,

I spoke with Martyne Keiling on July 21, 2003 about approving gas oil from the cleanout of Navajo's Artesia refinery tank 400 by process of knowledge. Martyne wanted to see some analytical on gas oil. The analytical I have sent for her to review is the most recent analytical that I have for gas oil this analytical is from a cleanout of a gas oil tank at our Lovington refinery. This material and its process are the same for both facilities.

Sincerely,

Charlie Plymale  
Environmental Specialist

Report Date: June 10, 2002 Order Number: A02052411  
N/A Gas Oil

Page Number: 1 of 2  
Lovington, NM

## Summary Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: June 10, 2002

Order ID Number: A02052411

Project Number: N/A  
Project Name: Gas Oil  
Project Location: Lovington, NM

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 197850 | Gas Oil     | Sludge | 5/24/02    | 14:25      | 5/24/02       |

This report consists of a total of 2 page(s) and is intended only as a summary of results for the sample(s) listed above.

### Sample: 197850 - Gas Oil

| Param                                     | Flag | Result        | Units |
|-------------------------------------------|------|---------------|-------|
| <b>Corrosivity</b>                        |      |               |       |
| Corrosivity (EPA limit = >6.5 mm/yr)      |      | non-corrosive | mm/yr |
| pH (EPA limit = <2 >12.5)                 |      | 7.0           | s.u.  |
| Ignitability                              |      | non-ignitable |       |
| <b>Reactivity</b>                         |      |               |       |
| Reactivity                                |      | Non-reactive  |       |
| Hydrogen Sulfide (EPA limit = 500)        |      | <10           | mg/Kg |
| Hydrogen Cyanide (EPA limit = 250)        |      | <2.5          | mg/Kg |
| TCLP Mercury (EPA limit = 0.20)           |      | <0.010        | mg/L  |
| <b>TCLP Metals</b>                        |      |               |       |
| TCLP Arsenic (EPA limit = 5.0)            |      | <0.500        | mg/L  |
| TCLP Barium (EPA limit = 100.0)           |      | <1.00         | mg/L  |
| TCLP Cadmium (EPA limit = 1.0)            |      | <0.050        | mg/L  |
| TCLP Chromium (EPA limit = 5.0)           |      | <0.100        | mg/L  |
| TCLP Lead (EPA limit = 5.0)               |      | <0.100        | mg/L  |
| TCLP Selenium (EPA limit = 1.0)           |      | <0.100        | mg/L  |
| TCLP Silver (EPA limit = 5.0)             |      | <0.020        | mg/L  |
| <b>TCLP Semivolatiles</b>                 |      |               |       |
| Pyridine (EPA limit = 5.0)                |      | <0.05         | mg/L  |
| 1,4-Dichlorobenzene (EPA limit = 7.5)     |      | <0.05         | mg/L  |
| o-Cresol (EPA limit = 200.0)              |      | <0.05         | mg/L  |
| m,p-Cresol (EPA limit = 200.0)            |      | <0.05         | mg/L  |
| Hexachloroethane (EPA limit = 3.0)        |      | <0.05         | mg/L  |
| Nitrobenzene (EPA limit = 2.0)            |      | <0.05         | mg/L  |
| Hexachlorobutadiene (EPA limit = 0.5)     |      | <0.05         | mg/L  |
| 2,4,6-Trichlorophenol (EPA limit = 2.0)   |      | <0.05         | mg/L  |
| 2,4,5-Trichlorophenol (EPA limit = 400.0) |      | <0.05         | mg/L  |
| 2,4-Dinitrotoluene (EPA limit = 0.13)     |      | <0.05         | mg/L  |

Report Date: June 10, 2002 Order Number: A02052411

Page Number: 2 of 2

N/A

Gas Oil

Lovington, NM

*Sample 197850 continued ...*

| Param                                       | Flag | Result | Units |
|---------------------------------------------|------|--------|-------|
| 2,4-D (EPA limit = 10.0)                    |      | <0.05  | mg/L  |
| Hexachlorobenzene (EPA limit = 0.13)        |      | <0.05  | mg/L  |
| 2,4,5-TP (EPA limit = 1.0)                  |      | <0.05  | mg/L  |
| Pentachlorophenol (EPA limit = 100.0)       |      | <0.05  | mg/L  |
| <b>TCLP Volatiles</b>                       |      |        |       |
| Vinyl Chloride (EPA limit = 0.20)           |      | <0.05  | mg/L  |
| 1,1-Dichloroethene (EPA limit = 0.70)       |      | <0.05  | mg/L  |
| Methyl ethyl ketone (EPA limit = 200.0)     |      | <0.50  | mg/L  |
| Chloroform (EPA limit = 6.00)               |      | <0.05  | mg/L  |
| 1,2-Dichloroethane (EDC) (EPA limit = 0.50) |      | <0.05  | mg/L  |
| Benzene (EPA limit = 0.50)                  |      | 0.20   | mg/L  |
| Carbon Tetrachloride (EPA limit = 0.50)     |      | <0.05  | mg/L  |
| Trichloroethene (TCE) (EPA limit = 0.50)    |      | <0.05  | mg/L  |
| Tetrachloroethene (PCE) (EPA limit = 0.70)  |      | <0.05  | mg/L  |
| Chlorobenzene (EPA limit = 100.00)          |      | <0.05  | mg/L  |
| 1,4-Dichlorobenzene (EPA limit = 7.50)      |      | <0.05  | mg/L  |



6701 Aberdeen Avenue, Suite 9  
155 McCutcheon, Suite H

Lubbock, Texas 79424  
El Paso, Texas 79932

800•378•1296  
888•588•3443  
E-Mail: lab@traceanalysis.com

806•794•1296  
915•585•3443

FAX 806•794•1298  
FAX 915•585•4944

## Analytical and Quality Control Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: June 10, 2002

Order ID Number: A02052411

Project Number: N/A  
Project Name: Gas Oil  
Project Location: Lovington, NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 197850 | Gas Oil     | Sludge | 5/24/02    | 14:25      | 5/24/02       |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed. Note: the RDL is equal to MQL for all organic analytes including TPH.

The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Report Date: June 10, 2002  
N/A

Order Number: A02052411  
Gas Oil

Page Number: 2 of 10  
Lovington, NM

## Analytical Report

### Sample: 197850 - Gas Oil

Analysis: Corrosivity Analytical Method: S 1110 QC Batch: QC20877 Date Analyzed: 6/7/02  
Analyst: KM Preparation Method: Prep Batch: PB19889 Date Prepared: 6/7/02

| Param       | Flag | Result        | Units | Dilution | RDL |
|-------------|------|---------------|-------|----------|-----|
| Corrosivity |      | non-corrosive | mm/yr | 1        |     |
| pH          |      | 7.0           | s.u.  | 1        |     |

### Sample: 197850 - Gas Oil

Analysis: Ignitability Analytical Method: SW-846 Ch. 7.1 QC Batch: QC20876 Date Analyzed: 6/7/02  
Analyst: KM Preparation Method: Prep Batch: PB19888 Date Prepared: 6/7/02

| Param        | Flag | Result        | Units | Dilution | RDL |
|--------------|------|---------------|-------|----------|-----|
| Ignitability |      | non-ignitable |       | 1        |     |

### Sample: 197850 - Gas Oil

Analysis: Reactivity Analytical Method: ASTM D 5049-90/4978-95 QC Batch: QC20878 Date Analyzed: 6/7/02  
Analyst: KM Preparation Method: Prep Batch: PB19890 Date Prepared: 6/7/02

| Param            | Flag | Result       | Units | Dilution | RDL |
|------------------|------|--------------|-------|----------|-----|
| Reactivity       |      | Non-reactive |       | 1        |     |
| Hydrogen Sulfide |      | <10          | mg/Kg | 1        |     |
| Hydrogen Cyanide |      | <2.5         | mg/Kg | 1        |     |

### Sample: 197850 - Gas Oil

Analysis: TCLP Hg Analytical Method: S 7470A QC Batch: QC20862 Date Analyzed: 6/7/02  
Analyst: BC Preparation Method: Prep Batch: PB19874 Date Prepared: 5/28/02

| Param        | Flag | Result | Units | Dilution | RDL  |
|--------------|------|--------|-------|----------|------|
| TCLP Mercury |      | <0.010 | mg/L  | 1        | 0.01 |

### Sample: 197850 - Gas Oil

Analysis: TCLP Metals Analytical Method: S 6010B QC Batch: QC20695 Date Analyzed: 5/30/02  
Analyst: RR Preparation Method: Prep Batch: PB19509 Date Prepared: 5/28/02

| Param         | Flag | Result | Units | Dilution | RDL   |
|---------------|------|--------|-------|----------|-------|
| TCLP Arsenic  |      | <0.500 | mg/L  | 10       | 0.05  |
| TCLP Barium   |      | <1.00  | mg/L  | 10       | 0.10  |
| TCLP Cadmium  |      | <0.050 | mg/L  | 10       | 0.005 |
| TCLP Chromium |      | <0.100 | mg/L  | 10       | 0.01  |
| TCLP Lead     |      | <0.100 | mg/L  | 10       | 0.01  |
| TCLP Selenium |      | <0.100 | mg/L  | 10       | 0.01  |
| TCLP Silver   |      | <0.020 | mg/L  | 10       | 0.002 |

Report Date: June 10, 2002  
N/A

Order Number: A02052411  
Gas Oil

Page Number: 3 of 10  
Lovington, NM

**Sample: 197850 - Gas Oil**

Analysis: TCLP Semivolatiles Analytical Method: E 8270C QC Batch: QC20794 Date Analyzed: 6/5/02  
Analyst: RC Preparation Method: 1311 Prep Batch: PB19815 Date Prepared: 6/4/02

| Param                 | Flag | Result | Units | Dilution | RDL  |
|-----------------------|------|--------|-------|----------|------|
| Pyridine              |      | <0.05  | mg/L  | 1        | 0.05 |
| 1,4-Dichlorobenzene   |      | <0.05  | mg/L  | 1        | 0.05 |
| o-Cresol              |      | <0.05  | mg/L  | 1        | 0.05 |
| m,p-Cresol            |      | <0.05  | mg/L  | 1        | 0.05 |
| Hexachloroethane      |      | <0.05  | mg/L  | 1        | 0.05 |
| Nitrobenzene          |      | <0.05  | mg/L  | 1        | 0.05 |
| Hexachlorobutadiene   |      | <0.05  | mg/L  | 1        | 0.05 |
| 2,4,6-Trichlorophenol |      | <0.05  | mg/L  | 1        | 0.05 |
| 2,4,5-Trichlorophenol |      | <0.05  | mg/L  | 1        | 0.05 |
| 2,4-Dinitrotoluene    |      | <0.05  | mg/L  | 1        | 0.05 |
| 2,4-D                 |      | <0.05  | mg/L  | 1        | 0.05 |
| Hexachlorobenzene     |      | <0.05  | mg/L  | 1        | 0.05 |
| 2,4,5-TP              |      | <0.05  | mg/L  | 1        | 0.05 |
| Pentachlorophenol     |      | <0.05  | mg/L  | 1        | 0.05 |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 2-Fluorophenol       |      | 32.49  | mg/L  | 1        | 80           | 40               | 21 - 100        |
| Phenol-d5            |      | 20.26  | mg/L  | 1        | 80           | 25               | 10 - 94         |
| Nitrobenzene-d5      |      | 75.66  | mg/L  | 1        | 80           | 94               | 35 - 114        |
| 2-Fluorobiphenyl     |      | 79.1   | mg/L  | 1        | 80           | 98               | 43 - 116        |
| 2,4,6-Tribromophenol |      | 56.02  | mg/L  | 1        | 80           | 70               | 10 - 123        |
| Terphenyl-d14        |      | 68.2   | mg/L  | 1        | 80           | 85               | 33 - 141        |

**Sample: 197850 - Gas Oil**

Analysis: TCLP Volatiles Analytical Method: S 8260B QC Batch: QC20805 Date Analyzed: 6/5/02  
Analyst: JG Preparation Method: 1311 Prep Batch: PB19824 Date Prepared: 6/4/02

| Param                    | Flag | Result | Units | Dilution | RDL   |
|--------------------------|------|--------|-------|----------|-------|
| Vinyl Chloride           |      | <0.05  | mg/L  | 50       | 0.001 |
| 1,1-Dichloroethene       |      | <0.05  | mg/L  | 50       | 0.001 |
| Methyl ethyl ketone      |      | <0.50  | mg/L  | 50       | 0.01  |
| Chloroform               |      | <0.05  | mg/L  | 50       | 0.001 |
| 1,2-Dichloroethane (EDC) |      | <0.05  | mg/L  | 50       | 0.001 |
| Benzene                  |      | 0.20   | mg/L  | 50       | 0.001 |
| Carbon Tetrachloride     |      | <0.05  | mg/L  | 50       | 0.001 |
| Trichloroethene (TCE)    |      | <0.05  | mg/L  | 50       | 0.001 |
| Tetrachloroethene (PCE)  |      | <0.05  | mg/L  | 50       | 0.001 |
| Chlorobenzene            |      | <0.05  | mg/L  | 50       | 0.001 |
| 1,4-Dichlorobenzene      |      | <0.05  | mg/L  | 50       | 0.001 |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 49.5   | mg/L  | 1        | 50           | 99               | 92 - 123        |
| Toluene-d8           |      | 50     | mg/L  | 1        | 50           | 100              | 86 - 113        |
| 4-Bromofluorobenzene |      | 49     | mg/L  | 1        | 50           | 98               | 83 - 109        |



Report Date: June 10, 2002  
N/A

Order Number: A02052411  
Gas Oil

Page Number: 4 of 10  
Lovington, NM

## Quality Control Report Method Blank

Method Blank      QCBatch:    QC20695

| Param         | Flag | Results | Units | Reporting Limit |
|---------------|------|---------|-------|-----------------|
| TCLP Arsenic  |      | <0.500  | mg/L  | 0.05            |
| TCLP Barium   |      | <1.00   | mg/L  | 0.10            |
| TCLP Cadmium  |      | <0.050  | mg/L  | 0.005           |
| TCLP Chromium |      | <0.100  | mg/L  | 0.01            |
| TCLP Lead     |      | <0.100  | mg/L  | 0.01            |
| TCLP Selenium |      | <0.100  | mg/L  | 0.01            |
| TCLP Silver   |      | <0.020  | mg/L  | 0.002           |

Method Blank      QCBatch:    QC20794

| Param                 | Flag | Results | Units | Reporting Limit |
|-----------------------|------|---------|-------|-----------------|
| Pyridine              |      | <0.05   | mg/L  | 0.05            |
| 1,4-Dichlorobenzene   |      | <0.05   | mg/L  | 0.05            |
| o-Cresol              |      | <0.05   | mg/L  | 0.05            |
| m,p-Cresol            |      | <0.05   | mg/L  | 0.05            |
| Hexachloroethane      |      | <0.05   | mg/L  | 0.05            |
| Nitrobenzene          |      | <0.05   | mg/L  | 0.05            |
| Hexachlorobutadiene   |      | <0.05   | mg/L  | 0.05            |
| 2,4,6-Trichlorophenol |      | <0.05   | mg/L  | 0.05            |
| 2,4,5-Trichlorophenol |      | <0.05   | mg/L  | 0.05            |
| 2,4-Dinitrotoluene    |      | <0.05   | mg/L  | 0.05            |
| 2,4-D                 |      | <0.05   | mg/L  | 0.05            |
| Hexachlorobenzene     |      | <0.05   | mg/L  | 0.05            |
| 2,4,5-TP              |      | <0.05   | mg/L  | 0.05            |
| Pentachlorophenol     |      | <0.05   | mg/L  | 0.05            |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 2-Fluorophenol       |      | 47.02  | mg/L  | 1        | 80           | 58               | 21 - 100        |
| Phenol-d5            |      | 34.28  | mg/L  | 1        | 80           | 42               | 10 - 94         |
| Nitrobenzene-d5      |      | 68.48  | mg/L  | 1        | 80           | 85               | 35 - 114        |
| 2-Fluorobiphenyl     |      | 72.97  | mg/L  | 1        | 80           | 91               | 43 - 116        |
| 2,4,6-Tribromophenol |      | 79.43  | mg/L  | 1        | 80           | 99               | 10 - 123        |
| Terphenyl-d14        |      | 75.03  | mg/L  | 1        | 80           | 93               | 33 - 141        |

Method Blank      QCBatch:    QC20805

| Param          | Flag | Results | Units | Reporting Limit |
|----------------|------|---------|-------|-----------------|
| Vinyl Chloride |      | <0.05   | mg/L  | 0.001           |

Continued ...

... Continued

| Param                    | Flag | Results | Units | Reporting Limit |
|--------------------------|------|---------|-------|-----------------|
| 1,1-Dichloroethene       |      | <0.05   | mg/L  | 0.001           |
| Methyl ethyl ketone      |      | <0.50   | mg/L  | 0.01            |
| Chloroform               |      | <0.05   | mg/L  | 0.001           |
| 1,2-Dichloroethane (EDC) |      | <0.05   | mg/L  | 0.001           |
| Benzene                  |      | <0.05   | mg/L  | 0.001           |
| Carbon Tetrachloride     |      | <0.05   | mg/L  | 0.001           |
| Trichloroethene (TCE)    |      | <0.05   | mg/L  | 0.001           |
| Tetrachloroethene (PCE)  |      | <0.05   | mg/L  | 0.001           |
| Chlorobenzene            |      | <0.05   | mg/L  | 0.001           |
| 1,4-Dichlorobenzene      |      | <0.05   | mg/L  | 0.001           |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.5   | mg/L  | 1        | 50           | 101              | 92 - 123        |
| Toluene-d8           |      | 50     | mg/L  | 1        | 50           | 100              | 86 - 113        |
| 4-Bromofluorobenzene |      | 49     | mg/L  | 1        | 50           | 98               | 83 - 109        |

### Quality Control Report Duplicate Samples

Duplicate QCBatch: QC20876

| Param        | Flag | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|--------------|------|------------------|---------------|-------|----------|-----|-----------|
| Ignitability |      | non-ignitable    | non-ignitable |       | 1        | 0   | 20        |

Duplicate QCBatch: QC20877

| Param       | Flag | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|-------------|------|------------------|---------------|-------|----------|-----|-----------|
| Corrosivity |      | non-corrosive    | non-corrosive | mm/yr | 1        | 0   | 20        |
| pH          |      | 7.1              | 7.0           | s.u.  | 1        | 1   | 0         |

Duplicate QCBatch: QC20878

| Param      | Flag | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------|------|------------------|---------------|-------|----------|-----|-----------|
| Reactivity |      | non-reactive     | Non-reactive  |       | 1        | 0   | 20        |

### Quality Control Report Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC20695

| Param         | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|---------------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| TCLP Arsenic  | 5.01       | 4.85        | mg/L  | 10   | 5                  | <0.500        | 100   | 3   | 80 - 120    | 20        |
| TCLP Barium   | 11.0       | 11.1        | mg/L  | 10   | 10                 | <1.00         | 110   | 0   | 80 - 120    | 20        |
| TCLP Cadmium  | 2.44       | 2.46        | mg/L  | 10   | 2.50               | <0.050        | 97    | 0   | 80 - 120    | 20        |
| TCLP Chromium | 1.02       | 0.994       | mg/L  | 10   | 1                  | <0.100        | 102   | 2   | 80 - 120    | 20        |
| TCLP Lead     | 4.98       | 4.92        | mg/L  | 10   | 5                  | <0.100        | 99    | 1   | 80 - 120    | 20        |
| TCLP Selenium | 4.34       | 4.31        | mg/L  | 10   | 5                  | <0.100        | 86    | 0   | 80 - 120    | 20        |
| TCLP Silver   | 1.25       | 1.26        | mg/L  | 10   | 1.25               | <0.020        | 100   | 0   | 80 - 120    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Laboratory Control Spikes

QCBatch: QC20794

| Param                 | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|-----------------------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| Pyridine              | 15.49      | 26.32       | mg/L  | 1    | 80                 | <0.05         | 19    | 51  | 0 - 92      | 20        |
| 1,4-Dichlorobenzene   | 53.98      | 65.73       | mg/L  | 1    | 80                 | <0.05         | 67    | 19  | 20 - 124    | 20        |
| o-Cresol              | 44.74      | 54.07       | mg/L  | 1    | 80                 | <0.05         | 55    | 18  | 41 - 92     | 20        |
| m,p-Cresol            | 86.66      | 106.95      | mg/L  | 1    | 160                | <0.05         | 54    | 20  | 7 - 127     | 20        |
| Hexachloroethane      | 61.54      | 75.6        | mg/L  | 1    | 80                 | <0.05         | 76    | 20  | 40 - 113    | 20        |
| Nitrobenzene          | 52.35      | 62.2        | mg/L  | 1    | 80                 | <0.05         | 65    | 17  | 35 - 186    | 20        |
| Hexachlorobutadiene   | 58.01      | 70.6        | mg/L  | 1    | 80                 | <0.05         | 72    | 19  | 24 - 116    | 20        |
| 2,4,6-Trichlorophenol | 54.66      | 65.8        | mg/L  | 1    | 80                 | <0.05         | 68    | 18  | 37 - 144    | 20        |
| 2,4,5-Trichlorophenol | 55.7       | 65.6        | mg/L  | 1    | 80                 | <0.05         | 69    | 16  | 49 - 185    | 20        |
| 2,4-Dinitrotoluene    | 55.42      | 66.1        | mg/L  | 1    | 80                 | <0.05         | 69    | 17  | 39 - 139    | 20        |
| 2,4-D                 | 190        | 214         | mg/L  | 1    | 80                 | <0.05         | 237   | 11  | 2 - 92      | 20        |
| Hexachlorobenzene     | 56.7       | 68.22       | mg/L  | 1    | 80                 | <0.05         | 70    | 18  | 0 - 152     | 20        |
| 2,4,5-TP              | 144        | 157         | mg/L  | 1    | 80                 | <0.05         | 180   | 8   | 0 - 112     | 20        |
| Pentachlorophenol     | 38.7       | 45.02       | mg/L  | 1    | 80                 | <0.05         | 48    | 15  | 14 - 176    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | LCS Result | LCSD Result | Units | Dilution | Spike Amount | LCS % Rec | LCSD % Rec | Recovery Limits |
|----------------------|------------|-------------|-------|----------|--------------|-----------|------------|-----------------|
| 2-Fluorophenol       | 43.29      | 49.38       | mg/L  | 1        | 80           | 54        | 61         | 21 - 100        |
| Phenol-d5            | 27.96      | 29.83       | mg/L  | 1        | 80           | 34        | 37         | 10 - 94         |
| Nitrobenzene-d5      | 72.44      | 74.93       | mg/L  | 1        | 80           | 90        | 93         | 35 - 114        |
| 2-Fluorobiphenyl     | 75.74      | 81.74       | mg/L  | 1        | 80           | 94        | 102        | 43 - 116        |
| 2,4,6-Tribromophenol | 85.86      | 88.62       | mg/L  | 1        | 80           | 106       | 110        | 10 - 123        |
| Terphenyl-d14        | 70.27      | 77.25       | mg/L  | 1        | 80           | 87        | 96         | 33 - 141        |

### Laboratory Control Spikes

QCBatch: QC20805

| Param                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|--------------------------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| Vinyl Chloride           | 4.53       | 4.76        | mg/L  | 1    | 5                  | <0.05         | 90    | 4   | 72 - 127    | 20        |
| 1,1-Dichloroethene       | 5.97       | 6.12        | mg/L  | 1    | 5                  | <0.05         | 119   | 2   | 91 - 128    | 20        |
| Methyl ethyl ketone      | 4.94       | 5.28        | mg/L  | 1    | 5                  | <0.50         | 98    | 6   | 54 - 160    | 20        |
| Chloroform               | 5.21       | 5.36        | mg/L  | 1    | 5                  | <0.05         | 104   | 2   | 89 - 111    | 20        |
| 1,2-Dichloroethane (EDC) | 4.91       | 5.14        | mg/L  | 1    | 5                  | <0.05         | 98    | 4   | 81 - 108    | 20        |
| Benzene                  | 5.30       | 5.35        | mg/L  | 1    | 5                  | <0.05         | 106   | 0   | 85 - 109    | 20        |
| Carbon Tetrachloride     | 6.60       | 6.88        | mg/L  | 1    | 5                  | <0.05         | 132   | 4   | 88 - 139    | 20        |

Continued ...

... Continued

| Param                   | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|-------------------------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| Trichloroethene (TCE)   | 5.59       | 5.57        | mg/L  | 1    | 5                  | <0.05         | 111   | 0   | 71 - 130    | 20        |
| Tetrachloroethene (PCE) | 4.13       | 4.18        | mg/L  | 1    | 5                  | <0.05         | 82    | 1   | 59 - 108    | 20        |
| Chlorobenzene           | 5.30       | 5.32        | mg/L  | 1    | 5                  | <0.05         | 106   | 0   | 78 - 133    | 20        |
| 1,4-Dichlorobenzene     | 5.22       | 5.28        | mg/L  | 1    | 5                  | <0.05         | 104   | 1   | 90 - 111    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | LCS Result | LCSD Result | Units | Dilution | Spike Amount | LCS % Rec | LCSD % Rec | Recovery Limits |
|----------------------|------------|-------------|-------|----------|--------------|-----------|------------|-----------------|
| Dibromofluoromethane | 46.5       | 48.5        | mg/L  | 1        | 50           | 93        | 97         | 92 - 123        |
| Toluene-d8           | 49.5       | 50.0        | mg/L  | 1        | 50           | 99        | 100        | 86 - 113        |
| 4-Bromofluorobenzene | 50.5       | 51.0        | mg/L  | 1        | 50           | 101       | 102        | 83 - 109        |

## Quality Control Report Matrix Spikes and Duplicate Spikes

### Matrix Spikes

QCBatch: QC20695

| Param         | MS Result | MSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|---------------|-----------|------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| TCLP Arsenic  | 4.97      | 5.02       | mg/L  | 10   | 5                  | <0.500        | 99    | 1   | 75 - 125    | 20        |
| TCLP Barium   | 10.8      | 11.0       | mg/L  | 10   | 10                 | <1.00         | 108   | 1   | 75 - 125    | 20        |
| TCLP Cadmium  | 2.43      | 2.48       | mg/L  | 10   | 2.50               | <0.050        | 97    | 2   | 75 - 125    | 20        |
| TCLP Chromium | 0.993     | 1.00       | mg/L  | 10   | 1                  | <0.100        | 99    | 0   | 75 - 125    | 20        |
| TCLP Lead     | 4.93      | 4.98       | mg/L  | 10   | 5                  | <0.100        | 98    | 1   | 75 - 125    | 20        |
| TCLP Selenium | 4.29      | 4.42       | mg/L  | 10   | 5                  | <0.100        | 85    | 2   | 75 - 125    | 20        |
| TCLP Silver   | 1.26      | 1.28       | mg/L  | 10   | 1.25               | <0.020        | 100   | 1   | 75 - 125    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Matrix Spikes

QCBatch: QC20805

| Param                    | MS Result | MSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|--------------------------|-----------|------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| Vinyl Chloride           | 4.88      | 5.07       | mg/L  | 1    | 5                  | <0.05         | 97    | 3   | 63 - 144    | 20        |
| 1,1-Dichloroethene       | 6.39      | 6.45       | mg/L  | 1    | 5                  | <0.05         | 127   | 0   | 85 - 147    | 20        |
| Methyl ethyl ketone      | 4.48      | 4.76       | mg/L  | 1    | 5                  | <0.50         | 89    | 6   | 50 - 153    | 20        |
| Chloroform               | 5.77      | 5.99       | mg/L  | 1    | 5                  | <0.05         | 115   | 3   | 91 - 125    | 20        |
| 1,2-Dichloroethane (EDC) | 5.80      | 5.99       | mg/L  | 1    | 5                  | <0.05         | 116   | 3   | 88 - 126    | 20        |
| Benzene                  | 5.59      | 5.71       | mg/L  | 1    | 5                  | 0.20          | 107   | 2   | 82 - 119    | 20        |
| Carbon Tetrachloride     | 6.30      | 6.89       | mg/L  | 1    | 5                  | <0.05         | 126   | 8   | 77 - 148    | 20        |
| Trichloroethene (TCE)    | 5.41      | 5.51       | mg/L  | 1    | 5                  | <0.05         | 108   | 1   | 86 - 130    | 20        |
| Tetrachloroethene (PCE)  | 4.04      | 4.03       | mg/L  | 1    | 5                  | <0.05         | 80    | 0   | 58 - 106    | 20        |
| Chlorobenzene            | 5.35      | 5.40       | mg/L  | 1    | 5                  | <0.05         | 107   | 0   | 74 - 134    | 20        |
| 1,4-Dichlorobenzene      | 5.20      | 5.27       | mg/L  | 1    | 5                  | <0.05         | 104   | 1   | 88 - 111    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | MS<br>Result | MSD<br>Result | Units | Dilution | Spike<br>Amount | MS<br>% Rec | MSD<br>% Rec | Recovery<br>Limits |
|----------------------|--------------|---------------|-------|----------|-----------------|-------------|--------------|--------------------|
| Dibromofluoromethane | 52.0         | 54.0          | mg/L  | 1        | 50              | 104         | 108          | 92 - 123           |
| Toluene-d8           | 50.5         | 50.0          | mg/L  | 1        | 50              | 101         | 100          | 86 - 113           |
| 4-Bromofluorobenzene | 50.0         | 50.0          | mg/L  | 1        | 50              | 100         | 100          | 83 - 109           |

## Quality Control Report Continuing Calibration Verification Standards

CCV (1)      QCBatch:    QC20695

| Param         | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Arsenic  |      | mg/L  | 1                     | 1.01                   | 101                         | 90 - 110                      | 5/30/02          |
| TCLP Barium   |      | mg/L  | 2                     | 2.04                   | 102                         | 90 - 110                      | 5/30/02          |
| TCLP Cadmium  |      | mg/L  | 0.50                  | 0.507                  | 101                         | 90 - 110                      | 5/30/02          |
| TCLP Chromium |      | mg/L  | 0.20                  | 0.204                  | 102                         | 90 - 110                      | 5/30/02          |
| TCLP Lead     |      | mg/L  | 1                     | 1.01                   | 101                         | 90 - 110                      | 5/30/02          |
| TCLP Selenium |      | mg/L  | 1                     | 0.991                  | 99                          | 90 - 110                      | 5/30/02          |
| TCLP Silver   |      | mg/L  | 0.25                  | 0.251                  | 100                         | 90 - 110                      | 5/30/02          |

ICV (1)      QCBatch:    QC20695

| Param         | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Arsenic  |      | mg/L  | 1                     | 1.02                   | 102                         | 95 - 105                      | 5/30/02          |
| TCLP Barium   |      | mg/L  | 2                     | 2.04                   | 102                         | 95 - 105                      | 5/30/02          |
| TCLP Cadmium  |      | mg/L  | 0.50                  | 0.507                  | 101                         | 95 - 105                      | 5/30/02          |
| TCLP Chromium |      | mg/L  | 0.20                  | 0.203                  | 102                         | 95 - 105                      | 5/30/02          |
| TCLP Lead     |      | mg/L  | 1                     | 1.01                   | 101                         | 95 - 105                      | 5/30/02          |
| TCLP Selenium |      | mg/L  | 1                     | 1.01                   | 101                         | 95 - 105                      | 5/30/02          |
| TCLP Silver   |      | mg/L  | 0.25                  | 0.252                  | 101                         | 95 - 105                      | 5/30/02          |

CCV (1)      QCBatch:    QC20794

| Param               | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Pyridine            |      | mg/L  | 60                    | 56.93                  | 94                          | 80 - 120                      | 6/5/02           |
| 1,4-Dichlorobenzene |      | mg/L  | 60                    | 56.5                   | 94                          | 80 - 120                      | 6/5/02           |
| o-Cresol            |      | mg/L  | 60                    | 56.32                  | 93                          | 80 - 120                      | 6/5/02           |
| m,p-Cresol          |      | mg/L  | 60                    | 56.87                  | 94                          | 80 - 120                      | 6/5/02           |
| Hexachloroethane    |      | mg/L  | 60                    | 61.9                   | 103                         | 80 - 120                      | 6/5/02           |
| Nitrobenzene        |      | mg/L  | 60                    | 54.56                  | 90                          | 80 - 120                      | 6/5/02           |

Continued ...

Report Date: June 10, 2002  
N/A

Order Number: A02052411  
Gas Oil

Page Number: 9 of 10  
Lovington, NM

... Continued

| Param                 | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Hexachlorobutadiene   |      | mg/L  | 60                    | 63.08                  | 105                         | 80 - 120                      | 6/5/02           |
| 2,4,6-Trichlorophenol |      | mg/L  | 60                    | 57.81                  | 96                          | 80 - 120                      | 6/5/02           |
| 2,4,5-Trichlorophenol |      | mg/L  | 60                    | 53.16                  | 88                          | 80 - 120                      | 6/5/02           |
| 2,4-Dinitrotoluene    |      | mg/L  | 60                    | 57.12                  | 95                          | 80 - 120                      | 6/5/02           |
| 2,4-D                 |      | mg/L  | 60                    | 70.91                  | 118                         | 2 - 92                        | 6/5/02           |
| Hexachlorobenzene     |      | mg/L  | 60                    | 58.00                  | 96                          | 80 - 120                      | 6/5/02           |
| 2,4,5-TP              |      | mg/L  | 60                    | 50.01                  | 83                          | 0 - 112                       | 6/5/02           |
| Pentachlorophenol     |      | mg/L  | 60                    | 48.81                  | 81                          | 80 - 120                      | 6/5/02           |
| 2-Fluorophenol        |      | mg/L  | 60                    | 66.15                  | 110                         | 80 - 120                      | 6/5/02           |
| Nitrobenzene-d5       |      | mg/L  | 60                    | 56.74                  | 94                          | 80 - 120                      | 6/5/02           |
| 2-Fluorobiphenyl      |      | mg/L  | 60                    | 63.58                  | 105                         | 80 - 120                      | 6/5/02           |
| 2,4,6-Tribromophenol  |      | mg/L  | 60                    | 58.01                  | 96                          | 80 - 120                      | 6/5/02           |
| Terphenyl-d14         |      | mg/L  | 60                    | 70.78                  | 117                         | 80 - 120                      | 6/5/02           |

CCV (1)      QCBatch:    QC20805

| Param                    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Vinyl Chloride           |      | mg/L  | 100                   | 101                    | 101                         | 80 - 120                      | 6/5/02           |
| 1,1-Dichloroethene       |      | mg/L  | 100                   | 115                    | 115                         | 80 - 120                      | 6/5/02           |
| Methyl ethyl ketone      |      | mg/L  | 100                   | 94                     | 94                          | 80 - 120                      | 6/5/02           |
| Chloroform               |      | mg/L  | 100                   | 104                    | 104                         | 80 - 120                      | 6/5/02           |
| 1,2-Dichloroethane (EDC) |      | mg/L  | 100                   | 103                    | 103                         | 80 - 120                      | 6/5/02           |
| Benzene                  |      | mg/L  | 100                   | 109                    | 109                         | 80 - 120                      | 6/5/02           |
| Carbon Tetrachloride     |      | mg/L  | 100                   | 117                    | 117                         | 80 - 120                      | 6/5/02           |
| Trichloroethene (TCE)    |      | mg/L  | 100                   | 114                    | 114                         | 80 - 120                      | 6/5/02           |
| Tetrachloroethene (PCE)  |      | mg/L  | 100                   | 86                     | 86                          | 80 - 120                      | 6/5/02           |
| Chlorobenzene            |      | mg/L  | 100                   | 111                    | 111                         | 80 - 120                      | 6/5/02           |
| 1,4-Dichlorobenzene      |      | mg/L  | 100                   | 112                    | 112                         | 80 - 120                      | 6/5/02           |
| Dibromofluoromethane     |      | mg/L  | 50                    | 46.5                   | 93                          | 80 - 120                      | 6/5/02           |
| Toluene-d8               |      | mg/L  | 50                    | 49.0                   | 98                          | 80 - 120                      | 6/5/02           |
| 4-Bromofluorobenzene     |      | mg/L  | 50                    | 50.0                   | 100                         | 80 - 120                      | 6/5/02           |

CCV (1)      QCBatch:    QC20862

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Mercury |      | mg/L  | 0.005                 | 0.00516                | 103                         | 80 - 120                      | 6/7/02           |

ICV (1)      QCBatch:    QC20862

Report Date: June 10, 2002  
N/A

Order Number: A02052411  
Gas Oil

Page Number: 10 of 10  
Lovington, NM

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Mercury |      | mg/L  | 0.005                 | 0.00529                | 105                         | 80 - 120                      | 6/7/02           |

Page \_\_\_ of \_\_\_

155 McCutcheon, Suite H  
El Paso, Texas 79932  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

# TraceAnalysis, Inc.

**Phone #:**

# Na Vajo

Fax #:

501 & Main

Charles Synale

**Project Name:**

**Sampler Signature:**

Loungton

[illegible]

|                    |         |       |                            |         |       |
|--------------------|---------|-------|----------------------------|---------|-------|
| Relinquished by:   | Date:   | Time: | Received by:               | Date:   | Time: |
| <i>[Signature]</i> | 5/23/02 | 1615  |                            |         |       |
| Relinquished by:   | Date:   | Time: | Received by:               | Date:   | Time: |
| <i>[Signature]</i> |         |       |                            |         |       |
| Relinquished by:   | Date:   | Time: | Received at Laboratory by: | Date:   | Time: |
| <i>[Signature]</i> |         |       | <i>[Signature]</i>         | 5-24-02 | 10:20 |

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**LAB Order ID #**

## ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

**LAB USE ONLY**

REMARKS:

Intact

Handspun

三

☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY



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

RECEIVED State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
Environmental Bureau  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised June 10, 2003

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

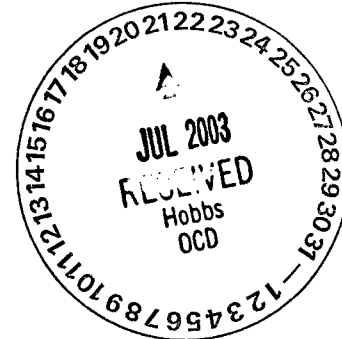
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                               | 4. Generator Navajo Refining                    |
| 2. Management Facility Destination Controlled Recovery, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5. Originating Site Artesia, NM                 |
| 3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6. Transporter D & J Waste or Jim Wilson Const. |
| 7. Location of Material (Street Address or ULSTR) 501 East Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8. State New Mexico                             |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br><br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                 |

### BRIEF DESCRIPTION OF MATERIAL:

RE: 07-22-03D

Contaminated Soil.

Attached is Non-Exempt waste form and Analytical results.



Estimated Volume 1000 yards Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers TITLE: Clerical DATE: 07-22-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@carihobbs.com

(This space for State Use)

APPROVED BY: [Signature] TITLE: Enviro Engr DATE: 7-29-03  
APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 7/22/03

072203-4

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Contaminated soil

ESTIMATED VOLUME: 1000 yards

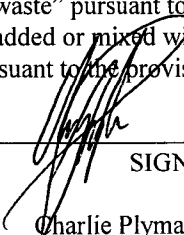
GENERATING PROCESS: Contaminated soil removed for building of a concrete foundation for a new tank near our Carbon Black Oil loading rack.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: D and J Waste, or Jim Wilson Const.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: 

SIGNATURE

NAME: Charlie Plymale

PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 7/21/03



# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
155 McCutcheon, Suite H

Lubbock, Texas 79424  
El Paso, Texas 79932

800•378•1296  
888•588•3443  
E-Mail: lab@traceanalysis.com

806•794•1296  
915•585•3443

FAX 806•794•1298  
FAX 915•585•4944

## Analytical and Quality Control Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: June 9, 2003

Work Order: 3052305

Project Location:  
Project Name:  
Project Number: N/A

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 8122   | CBO DPL     | soil   | 2003-05-22 | 14:35      | 2003-05-23    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

## Analytical Report

### Sample: 8122 - CBO DPL

|                  |                                           |                  |
|------------------|-------------------------------------------|------------------|
| Analysis: RCI    | Analytical Method: ASTM D 5049-90/4978-95 | Prep Method: N/A |
| QC Batch: 2106   | Date Analyzed: 2003-06-09                 | Analyzed By: JH  |
| Prep Batch: 1892 | Date Prepared: 2003-06-09                 | Prepared By: JH  |
| Analysis: RCI    | Analytical Method: S 1110                 | Prep Method: N/A |
| Analysis: RCI    | Analytical Method: SW-846 Ch. 7.1         | Prep Method: N/A |

| Parameter        | Flag | RL<br>Result  | Units | Dilution | RL   |
|------------------|------|---------------|-------|----------|------|
| Reactivity       |      | non-reactive  |       | 1        | 0.00 |
| Hydrogen Sulfide |      | <10.0         | mg/Kg | 1        | 10.0 |
| Hydrogen Cyanide |      | <2.50         | mg/Kg | 1        | 2.50 |
| Corrosivity      |      | non-corrosive | mm/yr | 1        | 0.00 |
| pH               |      | 7.80          | s.u.  | 1        | 0.00 |
| Ignitability     |      | non-ignitable |       | 1        | 0.00 |

### Sample: 8122 - CBO DPL

|                              |                            |                        |
|------------------------------|----------------------------|------------------------|
| Analysis: TCLP Semivolatiles | Analytical Method: S 8270C | Prep Method: TCLP 1311 |
| QC Batch: 2089               | Date Analyzed: 2003-06-05  | Analyzed By: RC        |
| Prep Batch: 1890             | Date Prepared: 2003-05-26  | Prepared By: JH        |

| Parameter                            | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------------------------------|------|--------------|-------|----------|------|
| Pyridine                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| o-Cresol                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| m,p-Cresol                           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachloroethane                     |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Nitrobenzene                         |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobutadiene                  |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,6-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dinitrotoluene                   |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobenzene                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Pentachlorophenol                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |

| Surrogate            | Flag | Result  | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|----------------------|------|---------|-------|----------|-----------------|---------------------|--------------------|
| 2-Fluorophenol       |      | 0.143   | mg/L  | 0.005    | 60.0            | 48                  | 2.83 - 110.33      |
| Phenol-d5            |      | 0.0956  | mg/L  | 0.005    | 60.0            | 32                  | 0 - 82.08          |
| Nitrobenzene-d5      |      | 0.287   | mg/L  | 0.005    | 60.0            | 96                  | 26.72 - 155        |
| 2-Fluorobiphenyl     |      | 0.264   | mg/L  | 0.005    | 60.0            | 88                  | 35.89 - 150.5      |
| 2,4,6-Tribromophenol |      | 0.00625 | mg/L  | 0.005    | 60.0            | 2                   | 0 - 204.91         |
| Terphenyl-d14        |      | 0.325   | mg/L  | 0.005    | 60.0            | 108                 | 33.98 - 168.85     |

### Sample: 8122 - CBO DPL

|                               |                            |                        |
|-------------------------------|----------------------------|------------------------|
| Analysis: TCLP Total 8 Metals | Analytical Method: S 7470A | Prep Method: TCLP 1311 |
|-------------------------------|----------------------------|------------------------|

|                               |                            |                        |
|-------------------------------|----------------------------|------------------------|
| QC Batch: 2065                | Date Analyzed: 2003-06-06  | Analyzed By: BC        |
| Prep Batch: 1867              | Date Prepared: 2003-06-05  | Prepared By: BC        |
| Analysis: TCLP Total 8 Metals | Analytical Method: S 6010B | Prep Method: TCLP 1311 |
| QC Batch: 2085                | Date Analyzed: 2003-06-04  | Analyzed By: RR        |
| Prep Batch: 1707              | Date Prepared: 2003-05-28  | Prepared By: TP        |

| Parameter     | Flag | RL<br>Result | Units | Dilution | RL     |
|---------------|------|--------------|-------|----------|--------|
| TCLP Silver   |      | <0.125       | mg/L  | 1        | 0.125  |
| TCLP Arsenic  |      | <0.100       | mg/L  | 1        | 0.100  |
| TCLP Barium   |      | 1.56         | mg/L  | 1        | 0.100  |
| TCLP Cadmium  |      | <0.0500      | mg/L  | 1        | 0.0500 |
| TCLP Chromium |      | 0.112        | mg/L  | 1        | 0.100  |
| TCLP Mercury  |      | <0.0100      | mg/L  | 1        | 0.0100 |
| TCLP Lead     |      | 0.545        | mg/L  | 1        | 0.0370 |
| TCLP Selenium |      | <0.500       | mg/L  | 1        | 0.500  |

**Sample: 8122 - CBO DPL**

|                          |                            |                        |
|--------------------------|----------------------------|------------------------|
| Analysis: TCLP Volatiles | Analytical Method: S 8260B | Prep Method: TCLP 1311 |
| QC Batch: 2015           | Date Analyzed: 2003-06-04  | Analyzed By: JG        |
| Prep Batch: 1820         | Date Prepared: 2003-06-04  | Prepared By: JG        |

| Parameter                  | Flag | RL<br>Result | Units | Dilution | RL      |
|----------------------------|------|--------------|-------|----------|---------|
| Vinyl Chloride             |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,1-Dichloroethene         |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 2-Butanone (MEK)           |      | <0.500       | mg/L  | 50       | 0.0100  |
| Chloroform                 |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Benzene                    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Chlorobenzene              |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500      | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 55.0   | mg/L  | 1        | 50.0            | 110                 | 79 - 118           |
| Toluene-d8                   |      | 51.7   | mg/L  | 1        | 50.0            | 103                 | 86 - 114           |
| 4-Bromofluorobenzene (4-BFB) |      | 47.8   | mg/L  | 1        | 50.0            | 96                  | 79 - 116           |

**Method Blank (1)      QC Batch: 2015**

| Parameter                | Flag | Result  | Units | RL    |
|--------------------------|------|---------|-------|-------|
| Vinyl Chloride           |      | <0.0500 | mg/L  | 0.001 |
| 1,1-Dichloroethene       |      | <0.0500 | mg/L  | 0.001 |
| 2-Butanone (MEK)         |      | <0.500  | mg/L  | 0.01  |
| Chloroform               |      | <0.0500 | mg/L  | 0.001 |
| 1,2-Dichloroethane (EDC) |      | <0.0500 | mg/L  | 0.001 |
| Benzene                  |      | <0.0500 | mg/L  | 0.001 |

*continued ...*

method blank continued ...

| Parameter                  | Flag | Result  | Units | RL    |
|----------------------------|------|---------|-------|-------|
| Carbon Tetrachloride       |      | <0.0500 | mg/L  | 0.001 |
| Trichloroethene (TCE)      |      | <0.0500 | mg/L  | 0.001 |
| Tetrachloroethene (PCE)    |      | <0.0500 | mg/L  | 0.001 |
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.001 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 54.3   | mg/L  | 1        | 50.0         | 109              | 79 - 118        |
| Toluene-d8                   |      | 51.4   | mg/L  | 1        | 50.0         | 103              | 86 - 114        |
| 4-Bromofluorobenzene (4-BFB) |      | 46.1   | mg/L  | 1        | 50.0         | 92               | 79 - 116        |

Method Blank (1) QC Batch: 2065

| Parameter    | Flag | Result  | Units | RL   |
|--------------|------|---------|-------|------|
| TCLP Mercury |      | <0.0100 | mg/L  | 0.01 |

Method Blank (1) QC Batch: 2085

| Parameter     | Flag | Result  | Units | RL    |
|---------------|------|---------|-------|-------|
| TCLP Silver   |      | <0.125  | mg/L  | 0.125 |
| TCLP Arsenic  |      | <0.100  | mg/L  | 0.1   |
| TCLP Barium   |      | <0.100  | mg/L  | 0.1   |
| TCLP Cadmium  |      | <0.0500 | mg/L  | 0.05  |
| TCLP Chromium |      | <0.100  | mg/L  | 0.1   |
| TCLP Lead     |      | <0.0370 | mg/L  | 0.037 |
| TCLP Selenium |      | <0.500  | mg/L  | 0.5   |

Method Blank (1) QC Batch: 2089

| Parameter                            | Flag | Result  | Units | RL |
|--------------------------------------|------|---------|-------|----|
| Pyridine                             |      | <0.0500 | mg/L  | 10 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500 | mg/L  | 10 |
| o-Cresol                             |      | <0.0500 | mg/L  | 10 |
| m,p-Cresol                           |      | <0.0500 | mg/L  | 10 |
| Hexachloroethane                     |      | <0.0500 | mg/L  | 10 |
| Nitrobenzene                         |      | <0.0500 | mg/L  | 10 |
| Hexachlorobutadiene                  |      | <0.0500 | mg/L  | 10 |
| 2,4,6-Trichlorophenol                |      | <0.0500 | mg/L  | 10 |
| 2,4,5-Trichlorophenol                |      | <0.0500 | mg/L  | 10 |
| 2,4-Dinitrotoluene                   |      | <0.0500 | mg/L  | 10 |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500 | mg/L  | 10 |
| Hexachlorobenzene                    |      | <0.0500 | mg/L  | 10 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500 | mg/L  | 10 |
| Pentachlorophenol                    |      | <0.0500 | mg/L  | 10 |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 2-Fluorophenol       |      | 0.199  | mg/L  | 0.005    | 60.0         | 66               | 2.83 - 110.33   |
| Phenol-d5            |      | 0.156  | mg/L  | 0.005    | 60.0         | 52               | 0 - 82.08       |
| Nitrobenzene-d5      |      | 0.305  | mg/L  | 0.005    | 60.0         | 102              | 26.72 - 155     |
| 2-Fluorobiphenyl     |      | 0.296  | mg/L  | 0.005    | 60.0         | 99               | 35.89 - 150.5   |
| 2,4,6-Tribromophenol |      | 0.0188 | mg/L  | 0.005    | 60.0         | 6                | 0 - 204.91      |
| Terphenyl-d14        |      | 0.354  | mg/L  | 0.005    | 60.0         | 118              | 33.98 - 168.85  |

Duplicate (1) QC Batch: 2106

| Param            | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------|------------------|---------------|-------|----------|-----|-----------|
| Reactivity       | non-reactive     | non-reactive  |       | 1        | 0   |           |
| Hydrogen Sulfide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Hydrogen Cyanide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Corrosivity      | non-corrosive    | non-corrosive | mm/yr | 1        | 0   | 20        |
| pH               | 7.80             | 7.80          | s.u.  | 1        | 0   | 20        |
| Ignitability     | non-ignitable    | non-ignitable |       | 1        | 0   | 20        |

Laboratory Control Spike (LCS-1) QC Batch: 2015

| Param                      | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Vinyl Chloride             | 4.92       | 5.09        | mg/L  | 50   | 0.100        | <0.00845      | 98   | 3   | 55 - 131   | 20        |
| 1,1-Dichloroethene         | 5.19       | 5.34        | mg/L  | 50   | 0.100        | <0.00790      | 104  | 3   | 81 - 119   | 20        |
| 2-Butanone (MEK)           | 4.44       | 4.72        | mg/L  | 50   | 0.100        | <0.0185       | 89   | 6   | 41 - 157   | 20        |
| Chloroform                 | 4.94       | 5.05        | mg/L  | 50   | 0.100        | <0.00480      | 99   | 2   | 79 - 126   | 20        |
| 1,2-Dichloroethane (EDC)   | 5.18       | 5.26        | mg/L  | 50   | 0.100        | <0.00470      | 104  | 2   | 72 - 131   | 20        |
| Benzene                    | 5.01       | 5.13        | mg/L  | 50   | 0.100        | <0.00520      | 100  | 2   | 87 - 118   | 20        |
| Carbon Tetrachloride       | 5.66       | 5.66        | mg/L  | 50   | 0.100        | <0.00390      | 113  | 0   | 43 - 162   | 20        |
| Trichloroethene (TCE)      | 4.87       | 4.95        | mg/L  | 50   | 0.100        | <0.00585      | 97   | 2   | 78 - 110   | 20        |
| Tetrachloroethene (PCE)    | 3.95       | 4.01        | mg/L  | 50   | 0.100        | <0.0205       | 79   | 2   | 48 - 81    | 20        |
| Chlorobenzene              | 4.90       | 5.01        | mg/L  | 50   | 0.100        | <0.00300      | 98   | 2   | 90 - 111   | 20        |
| 1,4-Dichlorobenzene (para) | 4.86       | 5.00        | mg/L  | 50   | 0.100        | <0.00425      | 97   | 3   | 81 - 115   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Dibromofluoromethane         | 52.7       | 52.9        | mg/L  | 1    | 50.0         | 105      | 106       | 79 - 118   |
| Toluene-d8                   | 50.9       | 51.2        | mg/L  | 1    | 50.0         | 102      | 102       | 86 - 114   |
| 4-Bromofluorobenzene (4-BFB) | 47.6       | 47.4        | mg/L  | 1    | 50.0         | 95       | 95        | 79 - 116   |

Laboratory Control Spike (LCS-1) QC Batch: 2065

| Param                      | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Mercury <sup>12</sup> | 0.0424     | 0.0475      | mg/L  | 1    | 0.0500       | <0.000200     | 85   | 11  | 80 - 120   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

<sup>1</sup> no flag needed error in versalims

<sup>2</sup> Changed spike amount from 0.001 to 0.05 due to error in versalims spike amount

**Laboratory Control Spike (LCS-1)**      QC Batch: 2085

| Param         | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Silver   | 1.34       | 1.35        | mg/L  | 1    | 1.25         | <0.00780      | 107  | 1   | 75 - 125   | 20        |
| TCLP Arsenic  | 4.36       | 4.50        | mg/L  | 1    | 5.00         | <0.0590       | 87   | 3   | 75 - 125   | 20        |
| TCLP Barium   | 10.9       | 11.0        | mg/L  | 1    | 10.0         | <0.00340      | 109  | 1   | 75 - 125   | 20        |
| TCLP Cadmium  | 2.70       | 2.73        | mg/L  | 1    | 2.50         | <0.00270      | 108  | 1   | 75 - 125   | 20        |
| TCLP Chromium | 1.08       | 1.09        | mg/L  | 1    | 1.00         | <0.00660      | 108  | 1   | 75 - 125   | 20        |
| TCLP Lead     | 5.32       | 4.95        | mg/L  | 1    | 5.00         | <0.0370       | 106  | 7   | 75 - 125   | 20        |
| TCLP Selenium | 4.74       | 4.81        | mg/L  | 1    | 5.00         | <0.100        | 95   | 1   | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**      QC Batch: 2089

| Param                                | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit     | RPD Limit |
|--------------------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|----------------|-----------|
| Pyridine                             | 28.4       | 29.0        | mg/L  | 1    | 60.0         | <2.41         | 47   | 2   | 12.6 - 50.02   | 20        |
| 1,4-Dichlorobenzene (para)           | 38.8       | 38.4        | mg/L  | 1    | 60.0         | <1.93         | 65   | 1   | 13.67 - 139.56 | 20        |
| o-Cresol                             | 40.3       | 40.4        | mg/L  | 1    | 60.0         | <1.46         | 67   | 0   | 18.58 - 114.05 | 20        |
| m,p-Cresol                           | 87.7       | 87.2        | mg/L  | 1    | 60.0         | <1.19         | 146  | 0   | 10.62 - 252.59 | 20        |
| Hexachloroethane                     | 50.5       | 49.6        | mg/L  | 1    | 60.0         | <1.91         | 84   | 2   | 25.17 - 146.78 | 20        |
| Nitrobenzene                         | 51.2       | 51.3        | mg/L  | 1    | 60.0         | <1.50         | 85   | 0   | 26.78 - 144.08 | 20        |
| Hexachlorobutadiene                  | 50.6       | 50.5        | mg/L  | 1    | 60.0         | <1.57         | 84   | 0   | 0 - 171.61     | 20        |
| 2,4,6-Trichlorophenol                | 50.3       | 50.6        | mg/L  | 1    | 60.0         | <1.64         | 84   | 0   | 19.23 - 144.93 | 20        |
| 2,4,5-Trichlorophenol                | 52.9       | 53.2        | mg/L  | 1    | 60.0         | <1.95         | 88   | 0   | 40.38 - 144.67 | 20        |
| 2,4-Dinitrotoluene                   | 57.8       | 58.2        | mg/L  | 1    | 60.0         | <2.09         | 96   | 1   | 18.51 - 158.26 | 20        |
| 2,4-Dichlorophenoxyacetic acid       | 75.9       | 76.4        | mg/L  | 1    | 60.0         | 0             | 126  | 1   | 0 - 165.81     | 20        |
| Hexachlorobenzene                    | 62.9       | 63.0        | mg/L  | 1    | 60.0         | <1.63         | 105  | 0   | 2.35 - 182.77  | 20        |
| 2,4,5-Trichlorophenoxypropionic acid | 70.2       | 72.0        | mg/L  | 1    | 60.0         | 0             | 117  | 2   | 22.1 - 144.74  | 20        |
| Pentachlorophenol                    | 59.8       | 59.6        | mg/L  | 1    | 60.0         | <3.04         | 100  | 0   | 0 - 156.72     | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit     |
|----------------------|------------|-------------|-------|------|--------------|----------|-----------|----------------|
| 2-Fluorophenol       | 33.0       | 34.1        | mg/L  | 1    | 60.0         | 55       | 57        | 2.83 - 110.33  |
| Phenol-d5            | 26.7       | 27.0        | mg/L  | 1    | 60.0         | 44       | 45        | 0 - 82.08      |
| Nitrobenzene-d5      | 54.6       | 54.7        | mg/L  | 1    | 60.0         | 91       | 91        | 26.72 - 155    |
| 2-Fluorobiphenyl     | 54.0       | 54.5        | mg/L  | 1    | 60.0         | 90       | 91        | 35.89 - 150.5  |
| 2,4,6-Tribromophenol | 39.1       | 39.4        | mg/L  | 1    | 60.0         | 65       | 66        | 0 - 204.91     |
| Terphenyl-d14        | 67.9       | 68.2        | mg/L  | 1    | 60.0         | 113      | 114       | 33.98 - 168.85 |

**Matrix Spike (MS-1)**      QC Batch: 2015

| Param                    | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Vinyl Chloride           | 5.18      | 5.13       | mg/L  | 50   | 0.100        | <0.00845      | 104  | 1   | 58 - 136   | 20        |
| 1,1-Dichloroethene       | 5.40      | 5.39       | mg/L  | 50   | 0.100        | <0.00790      | 108  | 0   | 81 - 125   | 20        |
| 2-Butanone (MEK)         | 4.21      | 4.23       | mg/L  | 50   | 0.100        | <0.0185       | 84   | 0   | 33 - 122   | 20        |
| Chloroform               | 5.13      | 5.14       | mg/L  | 50   | 0.100        | <0.00480      | 103  | 0   | 81 - 130   | 20        |
| 1,2-Dichloroethane (EDC) | 5.27      | 5.30       | mg/L  | 50   | 0.100        | <0.00470      | 105  | 0   | 76 - 137   | 20        |
| Benzene                  | 5.06      | 5.07       | mg/L  | 50   | 0.100        | <0.00520      | 101  | 0   | 88 - 121   | 20        |

continued ...



matrix spikes continued ...

| Param                      | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Carbon Tetrachloride       | 5.41      | 5.50       | mg/L  | 50   | 0.100        | <0.00390      | 108  | 2   | 56 - 156   | 20        |
| Trichloroethene (TCE)      | 4.83      | 4.80       | mg/L  | 50   | 0.100        | <0.00585      | 97   | 1   | 77 - 111   | 20        |
| Tetrachloroethene (PCE)    | 3.84      | 3.85       | mg/L  | 50   | 0.100        | <0.0205       | 77   | 0   | 48 - 80    | 20        |
| Chlorobenzene              | 4.93      | 4.96       | mg/L  | 50   | 0.100        | <0.00300      | 99   | 1   | 89 - 113   | 20        |
| 1,4-Dichlorobenzene (para) | 4.85      | 4.93       | mg/L  | 50   | 0.100        | <0.00425      | 97   | 2   | 82 - 113   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Dibromofluoromethane         | 54.2      | 54.5       | mg/L  | 1    | 50           | 108     | 109      | 79 - 118   |
| Toluene-d8                   | 51.3      | 52.0       | mg/L  | 1    | 50           | 103     | 104      | 86 - 114   |
| 4-Bromofluorobenzene (4-BFB) | 47.8      | 48.2       | mg/L  | 1    | 50           | 96      | 96       | 79 - 116   |

Matrix Spike (MS-2) QC Batch: 2065

| Param                      | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Mercury <sup>34</sup> | 0.0527    | 0.0420     | mg/L  | 1    | 0.0500       | <0.000200     | 105  | 22  | 80 - 120   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2085

| Param         | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Silver   | 1.34      | 1.32       | mg/L  | 1    | 1.25         | <0.00780      | 107  | 2   | 75 - 125   | 20        |
| TCLP Arsenic  | 4.24      | 4.65       | mg/L  | 1    | 5.00         | <0.0590       | 85   | 9   | 75 - 125   | 20        |
| TCLP Barium   | 13.1      | 12.9       | mg/L  | 1    | 10.0         | 2.41          | 107  | 2   | 75 - 125   | 20        |
| TCLP Cadmium  | 2.74      | 2.72       | mg/L  | 1    | 2.50         | <0.00270      | 110  | 1   | 75 - 125   | 20        |
| TCLP Chromium | 1.06      | 1.09       | mg/L  | 1    | 1.00         | 0.091         | 97   | 3   | 75 - 125   | 20        |
| TCLP Lead     | 5.71      | 5.78       | mg/L  | 1    | 5.00         | 0.839         | 97   | 1   | 75 - 125   | 20        |
| TCLP Selenium | 3.87      | 3.85       | mg/L  | 1    | 5.00         | <0.100        | 77   | 0   | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2089

| Param                      | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit     | RPD Limit |
|----------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|----------------|-----------|
| Pyridine                   | 19.8      | 19.1       | mg/L  | 1    | 60.0         | <2.41         | 33   | 4   | 12.6 - 50.02   | 20        |
| 1,4-Dichlorobenzene (para) | 40.5      | 36.6       | mg/L  | 1    | 60.0         | <1.93         | 68   | 10  | 13.67 - 139.56 | 20        |
| o-Cresol                   | 32.7      | 32.2       | mg/L  | 1    | 60.0         | <1.46         | 54   | 2   | 18.58 - 114.05 | 20        |
| m,p-Cresol                 | 65.8      | 64.4       | mg/L  | 1    | 60.0         | <1.19         | 110  | 2   | 10.62 - 252.59 | 20        |
| Hexachloroethane           | 51.4      | 50.3       | mg/L  | 1    | 60.0         | <1.91         | 86   | 2   | 25.17 - 146.78 | 20        |
| Nitrobenzene               | 51.8      | 50.4       | mg/L  | 1    | 60.0         | <1.50         | 86   | 3   | 26.78 - 144.08 | 20        |
| Hexachlorobutadiene        | 50.2      | 49.4       | mg/L  | 1    | 60.0         | <1.57         | 84   | 2   | 0 - 171.61     | 20        |
| 2,4,6-Trichlorophenol      | 48.3      | 48.8       | mg/L  | 1    | 60.0         | <1.64         | 80   | 1   | 19.23 - 144.93 | 20        |
| 2,4,5-Trichlorophenol      | 53.7      | 52.2       | mg/L  | 1    | 60.0         | <1.95         | 90   | 3   | 40.38 - 144.67 | 20        |

continued ...

<sup>3</sup>Changed spike amount from 0.001 to 0.05 due to error in versalims spike amount

<sup>4</sup>Changed spike amount from 0.001 to 0.05 due to error in versalims spike amount

matrix spikes continued ...

| Param                                | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit  | RPD<br>Limit |
|--------------------------------------|--------------|---------------|-------|------|-----------------|------------------|------|-----|----------------|--------------|
| 2,4-Dinitrotoluene                   | 55.4         | 55.9          | mg/L  | 1    | 60.0            | <2.09            | 92   | 1   | 18.51 - 158.26 | 20           |
| 2,4-Dichlorophenoxyacetic acid       | 70.2         | 73.4          | mg/L  | 1    | 60.0            | 0                | 117  | 4   | 0 - 165.81     | 20           |
| Hexachlorobenzene                    | 55.9         | 57.0          | mg/L  | 1    | 60.0            | <1.63            | 93   | 2   | 2.35 - 182.77  | 20           |
| 2,4,5-Trichlorophenoxypropionic acid | 66.6         | 68.1          | mg/L  | 1    | 60.0            | 0                | 111  | 2   | 22.1 - 144.74  | 20           |
| Pentachlorophenol                    | 59.3         | 59.1          | mg/L  | 1    | 60.0            | <3.04            | 99   | 0   | 0 - 156.72     | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit  |
|----------------------|--------------|---------------|-------|------|-----------------|------------|-------------|----------------|
| 2-Fluorophenol       | 23.6         | 24.3          | mg/L  | 1    | 60              | 39         | 40          | 2.83 - 110.33  |
| Phenol-d5            | 16.0         | 15.4          | mg/L  | 1    | 60              | 27         | 26          | 0 - 82.08      |
| Nitrobenzene-d5      | 57.0         | 55.6          | mg/L  | 1    | 60              | 95         | 93          | 26.72 - 155    |
| 2-Fluorobiphenyl     | 54.6         | 55.1          | mg/L  | 1    | 60              | 91         | 92          | 35.89 - 150.5  |
| 2,4,6-Tribromophenol | 35.2         | 35.5          | mg/L  | 1    | 60              | 59         | 59          | 0 - 204.91     |
| Terphenyl-d14        | 68.9         | 70.1          | mg/L  | 1    | 60              | 115        | 117         | 33.98 - 168.85 |

Standard (CCV-1) QC Batch: 2015

| Param                      | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Vinyl Chloride             |      | mg/L  | 50.0                  | 50.0                   | 100                         | 80 - 120                      | 2003-06-04       |
| 1,1-Dichloroethene         |      | mg/L  | 50.0                  | 48.0                   | 96                          | 80 - 120                      | 2003-06-04       |
| 2-Butanone (MEK)           |      | mg/L  | 50.0                  | 42.0                   | 84                          | 80 - 120                      | 2003-06-04       |
| Chloroform                 |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-06-04       |
| 1,2-Dichloroethane (EDC)   |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-06-04       |
| Benzene                    |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-06-04       |
| Carbon Tetrachloride       |      | mg/L  | 50.0                  | 52.0                   | 104                         | 80 - 120                      | 2003-06-04       |
| Trichloroethene (TCE)      |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-06-04       |
| Tetrachloroethene (PCE)    |      | mg/L  | 50.0                  | 52.0                   | 104                         | 80 - 120                      | 2003-06-04       |
| Chlorobenzene              |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-06-04       |
| 1,4-Dichlorobenzene (para) |      | mg/L  | 50.0                  | 47.0                   | 94                          | 80 - 120                      | 2003-06-04       |

Standard (ICV-1) QC Batch: 2065

| Param        | Flag         | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|--------------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Mercury | <sup>5</sup> | mg/L  | 0.00500               | 0.00505                | 101                         | 90 - 110                      | 2003-06-06       |

Standard (CCV-2) QC Batch: 2065

| Param        | Flag         | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|--------------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Mercury | <sup>6</sup> | mg/L  | 0.00500               | 0.00508                | 102                         | 80 - 120                      | 2003-06-06       |

Standard (ICV-1) QC Batch: 2085

<sup>5</sup>Changed spike amount from 0.001 to 0.005 due to error in versalims spike amount

<sup>6</sup>Changed spike amount from 0.001 to 0.005 due to error in versalims spike amount

| Param         | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Silver   |      | mg/L  | 0.125                 | 0.121                  | 97                          | 90 - 110                      | 2003-06-04       |
| TCLP Arsenic  |      | mg/L  | 1.00                  | 0.949                  | 95                          | 90 - 110                      | 2003-06-04       |
| TCLP Barium   |      | mg/L  | 1.00                  | 1.05                   | 105                         | 90 - 110                      | 2003-06-04       |
| TCLP Cadmium  |      | mg/L  | 1.00                  | 1.02                   | 102                         | 90 - 110                      | 2003-06-04       |
| TCLP Chromium |      | mg/L  | 1.00                  | 1.02                   | 102                         | 90 - 110                      | 2003-06-04       |
| TCLP Lead     |      | mg/L  | 1.00                  | 1.02                   | 102                         | 90 - 110                      | 2003-06-04       |
| TCLP Selenium |      | mg/L  | 1.00                  | 1.02                   | 102                         | 90 - 110                      | 2003-06-04       |

Standard (CCV-1) QC Batch: 2085

| Param         | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Silver   |      | mg/L  | 0.125                 | 0.133                  | 106                         | 90 - 110                      | 2003-06-04       |
| TCLP Arsenic  |      | mg/L  | 1.00                  | 1.07                   | 107                         | 90 - 110                      | 2003-06-04       |
| TCLP Barium   |      | mg/L  | 1.00                  | 1.06                   | 106                         | 90 - 110                      | 2003-06-04       |
| TCLP Cadmium  |      | mg/L  | 1.00                  | 1.01                   | 101                         | 90 - 110                      | 2003-06-04       |
| TCLP Chromium |      | mg/L  | 1.00                  | 1.02                   | 102                         | 90 - 110                      | 2003-06-04       |
| TCLP Lead     |      | mg/L  | 1.00                  | 0.998                  | 100                         | 90 - 110                      | 2003-06-04       |
| TCLP Selenium |      | mg/L  | 1.00                  | 0.923                  | 92                          | 90 - 110                      | 2003-06-04       |

Standard (CCV-1) QC Batch: 2089

| Param                                | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Pyridine                             |      | mg/L  | 60.0                  | 65.2                   | 109                         | 80 - 120                      | 2003-06-05       |
| 1,4-Dichlorobenzene (para)           |      | mg/L  | 60.0                  | 62.2                   | 104                         | 80 - 120                      | 2003-06-05       |
| o-Cresol                             |      | mg/L  | 60.0                  | 64.2                   | 107                         | 80 - 120                      | 2003-06-05       |
| m,p-Cresol                           |      | mg/L  | 60.0                  | 63.6                   | 106                         | 80 - 120                      | 2003-06-05       |
| Hexachloroethane                     |      | mg/L  | 60.0                  | 66.6                   | 111                         | 80 - 120                      | 2003-06-05       |
| Nitrobenzene                         |      | mg/L  | 60.0                  | 69.1                   | 115                         | 80 - 120                      | 2003-06-05       |
| Hexachlorobutadiene                  |      | mg/L  | 60.0                  | 66.5                   | 111                         | 80 - 120                      | 2003-06-05       |
| 2,4,6-Trichlorophenol                |      | mg/L  | 60.0                  | 64.0                   | 107                         | 80 - 120                      | 2003-06-05       |
| 2,4,5-Trichlorophenol                |      | mg/L  | 60.0                  | 62.8                   | 105                         | 80 - 120                      | 2003-06-05       |
| 2,4-Dinitrotoluene                   |      | mg/L  | 60.0                  | 64.5                   | 108                         | 80 - 120                      | 2003-06-05       |
| 2,4-Dichlorophenoxyacetic acid       |      | mg/L  | 60.0                  | 59.9                   | 100                         | 80 - 120                      | 2003-06-05       |
| Hexachlorobenzene                    |      | mg/L  | 60.0                  | 54.2                   | 90                          | 80 - 120                      | 2003-06-05       |
| 2,4,5-Trichlorophenoxypropionic acid |      | mg/L  | 60.0                  | 69.3                   | 116                         | 80 - 120                      | 2003-06-05       |
| Pentachlorophenol                    |      | mg/L  | 60.0                  | 59.8                   | 100                         | 80 - 120                      | 2003-06-05       |

| Surrogate            | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|----------------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| 2-Fluorophenol       |      | 65.0   | mg/L  | 1        | 60.0            | 108                 | 80 - 120          |
| Phenol-d5            |      | 63.4   | mg/L  | 1        | 60.0            | 106                 | 80 - 120          |
| Nitrobenzene-d5      |      | 68.3   | mg/L  | 1        | 60.0            | 114                 | 80 - 120          |
| 2-Fluorobiphenyl     |      | 61.5   | mg/L  | 1        | 60.0            | 102                 | 80 - 120          |
| 2,4,6-Tribromophenol |      | 57.7   | mg/L  | 1        | 60.0            | 96                  | 80 - 120          |
| Terphenyl-d14        |      | 61.9   | mg/L  | 1        | 60.0            | 103                 | 80 - 120          |

**155 McCutcheon, Suite H**  
**El Paso, Texas 79932**  
**Tel (915) 585-3443**  
**Fax (915) 585-4944**  
**1 (888) 588-3443**

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3052305

Phone #:

Fax #:

Charlie Plmale

(If different from above)

**Project Name:**

**Sampler Signature:**

**Sampler Signature:** 

[illegible]

## ANALYSIS REQUEST

(Circle or Specify Method No.)

|  |                                                  |   |
|--|--------------------------------------------------|---|
|  | MTBE 8021B/602                                   |   |
|  | BTEX 8021B/602                                   |   |
|  | TPH 418.1/TX1005                                 |   |
|  | PAH 8270C                                        |   |
|  | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | X |
|  | TCLP Metals Ag As Ba Cd Cr Pb Se Hg              | X |
|  | TCLP Volatiles                                   | X |
|  | TCLP Semi Volatiles                              | X |
|  | TCLP Pesticides                                  | X |
|  | RCI                                              | X |
|  | GC/MS Vol. 8260B/624                             |   |
|  | GC/MS Semi. Vol. 8270C/625                       |   |
|  | PCBs 8082/608                                    |   |
|  | Pesticides 8081A/608                             |   |
|  | BOD, TSS, pH                                     |   |
|  | Turn/Around Time if different from standard      |   |
|  | Hold                                             |   |

Received by:

Date: \_\_\_\_\_ Time: \_\_\_\_\_

REMARKS:

**LAB USE ONLY**

Received by:

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received at L...

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Temp 1a  
ood-in: Review

☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of O.C.C.

Carrier # Fed Ex 61674980-0729

ORIGINAL COPY

## Kieling, Martyne

---

**From:** Kieling, Martyne  
**Sent:** Monday, July 28, 2003 3:59 PM  
**To:** 'ken@carihobbs.com'  
**Subject:** C-138

Form C-138 Request for approval to accept solid waste

CRI ID. # 09-23-02A  
Generator: Duke Energy Field Services Loving Plant  
Waste stream: Compressor sump water mixed with ethylene glycol (Antifreeze) from compressor engine and water.

Approval: This waste stream is still approved under the above C-138 even with the addition of the ethylene glycol. I have attached a copy of this e-mail approval to the faxed information (analytical and MSDS) provided by CRI on July 25, 2003. This approval is good through October 2003 as stated on the C-138.

*Martyne J. Kieling*

Martyne J. Kieling  
Environmental Geologist

P.O. Box 388  
Hobbs, NM 88241-0388  
Phone: (505) 393-1079  
Fax: (505) 393-3615

Controlled Recovery, Inc.

# Fax

To: Martyne Kieling

From: Ken Marsh

Fax: 505-476-3462

Date: 07-25-03

Phone: 505-476-3488

Pages: 14

Re: Duke Energy Field Service

☐ Urgent   ☐ For Review   ☐ Please Comment   ☐ Please Reply   ☐ Please Recycle

•Comments:

**CRI**  
**CONTROLLED RECOVERY INC.**

P.O. BOX 388, HOBBS, NM 88241  
(505) 393-1079 • FAX (505) 393-3615

July 25, 2003

Martyne Kieling  
NMOCD  
Santa Fe, NM 87505

Fax: 505-476-3462

RE: Duke Energy Field Service, Loving Plant, Eddy County, NM

Repairs were made to a compressor engine. Approximately 180 gallons of antifreeze was drained from the engine. The engine was then flushed with 360 gallons of fresh water. The fluids were pumped into the tank that holds storm water runoff from sumps under and around the compressors.

The tank has a capacity of 100 BBLS and presently contains approximately 50 BBLS. The regular procedure is to empty the tank when 85% full.

Please advise.

Sincerely,

  
Ken Marsh

MSDS - Antifreeze  
C138 and Analytical data 09-19-02

cc: Hobbs District Office

07-02-02 1:11 PM 11-11-02

5053933615

07-02 11:11 AM 11-11-02

State of New Mexico  
Game and Natural ResourcesForm C-128  
Revised March 17, 1998Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505Submit Original  
File 1 Copy  
To Approving  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                |  |                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------|
| 1. RCRA Exempt <input type="checkbox"/> Non-Exempt <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Request Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |  | 4. Generator Duke Energy Field Services |
| 2. Management Facility Name Controlled Recovery Inc.                                                                                                                                                           |  | 5. Organizing Site Loving Plant         |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                            |  | 6. Transporter CR2                      |
| 7. Location of Material (Street Address or U.S.STR) 260 Potash Mines Rd.                                                                                                                                       |  | 8. State New Mexico                     |
|                                                                                                                                                                                                                |  | Loving, New Mexico                      |

## 3. Check One:

- A. All requests for approval to accept off-site except wastes will be accompanied by a certification of waste from the Generator, one certification per job.
- B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is non-hazardous and the Generator's certification of origin. No waste classification by testing or assay will be approved.

All responses must certify the wastes delivered are only those consigned for transport.

## BRIEF DESCRIPTION OF MATERIAL:

C9-21-02A

Waste water generated from pumps/rain water.

Enclosed is certificate of waste status, analytical data, and chain of custody to extend this process until October 1, 2003.



Estimated Volume: approx. 100 bbls. approx. 25 days. Estimated Volume to be stored by the operator at the end of the haul: \_\_\_\_\_ cy

SIGNATURE: Carmella Van Mammen TITLE: Bookkeeper DATE: 09-24-02TYPE OR PRINT NAME: Carmella Van Mammen TELEPHONE NO.: (505) 393-1029

|                                 |                       |
|---------------------------------|-----------------------|
| APPROVED BY: <u>[Signature]</u> | DATE: <u>09/24/02</u> |
| APPROVED BY: <u>[Signature]</u> | DATE: <u>09/24/02</u> |

*[Handwritten signature]*




**ARDINAL  
LABORATORIES**

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**ANALYTICAL RESULTS FOR  
CONTROLLED RECOVERY, INC.**

ATTN: KEN MARSH

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 09/13/02

Reporting Date: 09/19/02

Project Owner: DEFS

Project Name: SUMP

Project Location: EDDY COUNTY, NM

Sampling Date: 09/13/02

Sample Type: WASTEWATER

Sample Condition: COOL &amp; INTACT

Sample Received By: BC

Analyzed By: AH

**TCLP METALS**

| LAB NO.                                                                      | SAMPLE ID | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ANALYSIS DATE:                                                               |           | 09/18/02  | 09/19/02  | 09/19/02  | 09/19/02  | 09/19/02  | 09/19/02  | 09/19/02  | 09/18/02  |
| EPA LIMITS:                                                                  |           | 5         | 5         | 100       | 1         | 5         | 5         | 0.2       | 1         |
| H7032-1                                                                      | SUMPS     | <1        | <1        | <5        | <0.1      | <1        | <1        | <0.02     | <0.1      |
|                                                                              |           |           |           |           |           |           |           |           |           |
|                                                                              |           |           |           |           |           |           |           |           |           |
|                                                                              |           |           |           |           |           |           |           |           |           |
| Quality Control                                                              |           | 0.052     | 4.938     | 24.88     | 0.987     | 4.775     | 4.876     | 0.0101    | 0.053     |
| True Value QC                                                                |           | 0.050     | 5.000     | 25.00     | 1.000     | 5.000     | 5.000     | 0.0100    | 0.050     |
| % Recovery                                                                   |           | 104       | 98.8      | 99.5      | 98.7      | 95.5      | 97.5      | 101.0     | 106       |
| Relative Standard Deviation                                                  |           | 4.5       | 0.1       | 3.1       | 0.3       | 1.0       | 0.2       | 1.0       | 8.8       |
| METHODS: EPA 1311, 600/4-91, 206.2 272.1 208.1 213.1 218.1 239.1 245.1 270.2 |           |           |           |           |           |           |           |           |           |

Amy Hill  
Chemist

9-19-02  
Date

H7032

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONTROLLED RECOVERY, INC.

ATTN: KEN MARSH

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 09/13/02

Reporting Date: 09/19/02

Project Owner: DEFS/LOVING

Project Name: SUMP

Project Location: EDDY COUNTY, NM

Sampling Date: 09/13/02

Sample Type: WASTEWATER

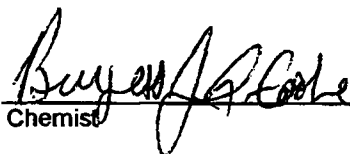
Sample Condition: COOL &amp; INTACT

Sample Received By: BC

Analyzed By: AH/BC

| LAB NO. SAMPLE ID           | REACTIVITY       |                  |                     |                      |
|-----------------------------|------------------|------------------|---------------------|----------------------|
|                             | Sulfide<br>(ppm) | Cyanide<br>(ppm) | CORROSIVITY<br>(pH) | IGNITABILITY<br>(°F) |
| ANALYSIS DATE:              | 09/17/02         | 09/17/02         | 09/16/02            | 09/16/02             |
| H7032-1 SUMPS               | Not reactive     | Not reactive     | 6.68                | >140                 |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
| Quality Control             | NR               | NR               | 6.99                | NR                   |
| True Value QC               | NR               | NR               | 7.00                | NR                   |
| % Recovery                  | NR               | NR               | 100                 | NR                   |
| Relative Percent Difference | NR               | NR               | 0                   | NR                   |

METHOD: EPA SW-846 7.3, 7.2, 1010, 1311, 40 CFR 261

  
Chemist

9/19/02  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. Cardinal shall not be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



# ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

## ANALYTICAL RESULTS FOR CONTROLLED RECOVERY, INC.

ATTN: KEN MARSH

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 09/13/02

Reporting Date: 09/16/02

Project Owner: DEFS/LOVING

Project Name: SUMP

Project Location: EDDY COUNTY, NM

Lab Number: H7032-1

Sample ID: SUMPS

Analysis Date: 09/13/02

Sampling Date: 09/13/02

Sample Type: WASTEWATER

Sample Condition: COOL &amp; INTACT

Sample Received By: BC

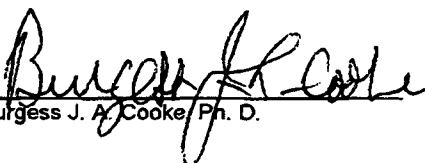
Analyzed By: BC

| TCLP SEMIVOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7032-1 | Method<br>Blank | QC    | % Recov. | True Value<br>QC |
|--------------------------|--------------|--------------------------|-----------------|-------|----------|------------------|
| Pyridine                 | 5.00         | <0.050                   | <0.005          | 0.041 | 82       | 0.050            |
| 1,4-Dichlorobenzene      | 7.50         | <0.050                   | <0.005          | 0.033 | 66       | 0.050            |
| o-Cresol                 | 200          | <0.050                   | <0.005          | 0.044 | 88       | 0.050            |
| m, p-Cresol              | 200          | <0.050                   | <0.005          | 0.041 | 82       | 0.050            |
| Hexachloroethane         | 3.00         | <0.050                   | <0.005          | 0.029 | 58       | 0.050            |
| Nitrobenzene             | 2.00         | <0.050                   | <0.005          | 0.044 | 88       | 0.050            |
| Hexachloro-1,3-butadiene | 0.500        | <0.050                   | <0.005          | 0.033 | 66       | 0.050            |
| 2,4,6-Trichlorophenol    | 2.00         | <0.050                   | <0.005          | 0.053 | 106      | 0.050            |
| 2,4,5-Trichlorophenol    | 400          | <0.050                   | <0.005          | 0.052 | 104      | 0.050            |
| 2,4-Dinitrotoluene       | 0.130        | <0.050                   | <0.005          | 0.046 | 92       | 0.050            |
| Hexachlorobenzene        | 0.130        | <0.050                   | <0.005          | 0.053 | 106      | 0.050            |
| Pentachlorophenol        | 100          | <0.050                   | <0.005          | 0.046 | 92       | 0.050            |

### % RECOVERY

|                      |     |
|----------------------|-----|
| Fluorophenol         | 69  |
| Phenol-d5            | 50  |
| Nitrobenzene-d5      | 88  |
| 2-Fluorobiphenyl     | 73  |
| 2,4,6-Tribromophenol | 107 |
| Terphenyl-d14        | 95  |

METHODS: EPA SW-846 1311, 8270, 3510

  
Burgess J. A. Cooke, Ph. D.

  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONTROLLED RECOVERY, INC.

ATTN: KEN MARSH

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 09/13/02

Reporting Date: 09/16/02

Project Owner: DEFS/LOVING

Project Name: SUMP

Project Location: EDDY COUNTY, NM

Lab Number: H7032-1

Sample ID: SUMPS

Analysis Date: 09/13/02

Sampling Date: 09/13/02

Sample Type: WASTEWATER

Sample Condition: COOL &amp; INTACT

Sample Received By: BC

Analyzed By: BC

| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7032-1 | Method<br>Blank | QC    | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|-------|---------|------------------|
| Vinyl Chloride       | 0.20         | <0.005                   | <0.005          | 0.109 | 109     | 0.100            |
| 1,1-Dichloroethylene | 0.7          | <0.005                   | <0.005          | 0.095 | 95      | 0.100            |
| Methyl Ethyl Ketone  | 200          | <0.050                   | <0.050          | 0.084 | 84      | 0.100            |
| Chloroform           | 6.0          | <0.005                   | <0.005          | 0.087 | 87      | 0.100            |
| 1,2-Dichloroethane   | 0.5          | <0.005                   | <0.005          | 0.090 | 90      | 0.100            |
| Benzene              | 0.5          | <0.005                   | <0.005          | 0.114 | 114     | 0.100            |
| Carbon Tetrachloride | 0.5          | <0.005                   | <0.005          | 0.109 | 109     | 0.100            |
| Trichloroethylene    | 0.5          | <0.005                   | <0.005          | 0.098 | 98      | 0.100            |
| Tetrachloroethylene  | 0.7          | <0.005                   | <0.005          | 0.091 | 91      | 0.100            |
| Chlorobenzene        | 100          | <0.005                   | <0.005          | 0.101 | 101     | 0.100            |
| 1,4-Dichlorobenzene  | 7.5          | <0.005                   | <0.005          | 0.091 | 91      | 0.100            |

## % RECOVERY

|                      |     |
|----------------------|-----|
| Dibromofluoromethane | 95  |
| Toluene-d8           | 100 |
| Bromofluorobenzene   | 102 |

METHODS: EPA SW 846-8260, 1311

*Burgess J. A. Cooke*  
Burgess J. A. Cooke, Ph. D.

*9/16/02*  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

MATERIAL SAFETY DATA SHEET

Ashland

Page 001  
Date Prepared: 03/31/99  
Date Printed: 06/19/03  
MSDS No: 301.0312030-002.010

ASHLAND FLEET ANTIFREEZE 50-50

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: ASHLAND FLEET ANTIFREEZE 50-50  
SAP Material No: 7651143 415 00A  
General or Generic ID: SOLVENT BLEND

Company

Ashland  
Ashland Distribution Co. &  
Ashland Specialty Chemical Co.  
P. O. Box 2219  
Columbus, OH 43216  
614-790-3333

Emergency Telephone Number:

1-800-ASHLAND (1-800-274-5263)  
24 hours everyday

Regulatory Information Number:  
1-800-325-3751

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient(s)   | CAS Number | % (by weight) |
|-----------------|------------|---------------|
| ETHYLENE GLYCOL | 107-21-1   | 51.0- 51.0    |
| WATER           | 7732-18-5  | 46.0- 50.0    |

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin

May cause mild skin irritation. Symptoms may include redness and burning of skin. Although rare, skin contact with ethylene glycol may cause allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects). Passage of this material into the body through the skin is possible, and may add to toxic effects from breathing or swallowing.

Swallowing

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Liver, kidney and brain damage in humans has resulted from swallowing lethal or near-lethal amounts of ethylene glycol.

Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

Symptoms of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), cough, central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, involuntary eye movement, cyanosis (causes blue

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 002  
Date Prepared: 03/31/99  
Date Printed: 06/19/03  
MSDS No: 301.0312030-002.010

ASHLAND FLEET ANTIFREEZE 50-50

coloring of the skin and nails from lack of oxygen), lung edema (fluid buildup in the lung tissue), kidney damage, liver damage, convulsions, coma, and death.

**Target Organ Effects**

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: reproductive effects, kidney damage, liver damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: kidney damage, liver damage.

**Developmental Information**

Ethylene glycol has caused birth defects in animal studies at high oral doses.

**Cancer Information**

This material is not expected to cause cancer in humans since it did not cause cancer in laboratory animals. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

**Other Health Effects**

No data

**Primary Route(s) of Entry**

Inhalation, Skin absorption, Skin contact, Eye contact, Ingestion - Industrial products are not meant to be swallowed.

**4. FIRST AID MEASURES**

**Eyes**

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

**Skin**

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

**Swallowing**

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

**Inhalation**

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

**Note to Physicians**

This product contains ethylene glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical care will be delayed several hours, give the patient three to four 1-ounce oral "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol poisoning. Hemodialysis effectively removes ethylene glycol and its metabolites from the

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 003  
Date Prepared: 03/31/99  
Date Printed: 06/19/03  
MSDS No: 301.0312030-002.010

ASHLAND FLEET ANTIFREEZE 50-50

body. Effects of acute ethylene glycol poisoning appear in three fairly distinct stages. The initial stage occurs shortly after exposure, lasts 6-12 hours, and is characterized by central nervous system effects (transient exhilaration, nausea, vomiting, and in severe cases, coma, convulsions, and possible death). The second stage lasts from 12-36 hours after exposure and is initiated by the onset of coma. This phase is characterized by tachypnea, tachycardia, mild hypotension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and congestive failure. The final stage occurs 24-72 post-exposure and is characterized by renal failure, ranging from a mild increase in blood urea nitrogen and creatinine followed by recovery, to complete anuria with acute tubular necrosis that can lead to death. Oxaluria is found in most cases. The most significant laboratory finding in ethylene glycol intoxication is severe metabolic acidosis. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: lung (for example, asthma-like conditions), liver, kidney, central nervous system. Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias.

5. FIRE FIGHTING MEASURES

Flash Point

> 200.0 F (93.3 C) TCC

Explosive Limit

(for component) Lower 3.2 Upper 15.3 %

Autoignition Temperature

No data

Hazardous Products of Combustion

may form: carbon dioxide and carbon monoxide, various hydrocarbons.

Fire and Explosion Hazards

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Extinguishing Media

regular foam, carbon dioxide, dry chemical.

Fire Fighting Instructions

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

Health - 1, Flammability - 1, Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Small Spill

Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to hood.

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 004  
Date Prepared: 03/31/99  
Date Printed: 06/19/03  
MSDS No: 301.0312030-002.010

ASHLAND FLEET ANTIFREEZE 50-50

---

**Large Spill**

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

---

**7. HANDLING AND STORAGE**

**Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five-gallon pails and larger metal containers, including tank cars and tank trucks, should be grounded and/or bonded when material is transferred. Emergency eyewash fountains and safety showers should be available in the immediate vicinity of potential exposure. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eye Protection**

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

**Skin Protection**

Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Respiratory Protections**

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

**Engineering Controls**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Continued on next page



MATERIAL SAFETY DATA SHEET

Ashland

Page 005  
Date Prepared: 03/31/99  
Date Printed: 06/19/03  
MSDS No: 301.0312030-002.010

ASHLAND FLEET ANTIFREEZE 50-50

---

Exposure Guidelines

Component

-----  
ETHYLENE GLYCOL (107-21-1)  
OSHA VPEL 50.000 ppm - Ceiling  
ACGIH TLV 100.000 mg/m<sup>3</sup> - Ceiling as an aerosol

WATER (7732-18-5)  
No exposure limits established

---

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for component) 212.0 F (100.0 C) @ 760 mmHg

Vapor Pressure

(for component) 17.500 mmHg @ 68.00 F

Specific Vapor Density

> 1.000 @ AIR=1

Specific Gravity

1.060 @ 77.00 F

Liquid Density

8.840 lbs/gal @ 77.00 F  
1.060 kg/l @ 25.00 C

Percent Volatiles

No data

Evaporation Rate

SLOWER THAN ETHYL ETHER

Appearance

No data

State

LIQUID

Physical Form

HOMOGENEOUS SOLUTION

Color

No data

Odor

No data

pH

Not applicable

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 006  
Date Prepared: 03/31/99  
Date Printed: 06/19/03  
MSDS No: 301.0312030-002.010

ASHLAND FLEET ANTIFREEZE 50-50

---

10. STABILITY AND REACTIVITY

**Hazardous Polymerization**

Product will not undergo hazardous polymerization.

**Hazardous Decomposition**

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

**Chemical Stability**

Stable.

**Incompatibility**

Avoid contact with: strong oxidizing agents.

---

11. TOXICOLOGICAL INFORMATION

No data

---

12. ECOLOGICAL INFORMATION

No data

---

13. DISPOSAL CONSIDERATION

**Waste Management Information**

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution Company, IC&S Environmental Services Group at 800-637-7922.

---

14. TRANSPORT INFORMATION

**DOT Information - 49 CFR 172.101**

**DOT Description:**

NON-REGULATED BY D.O.T.

**Container/Mode:**

55 GAL DRUM/TRUCK PACKAGE

**NOS Component:**

ETHYLENE GLYCOL

**RQ (Reportable Quantity) - 49 CFR 172.101**

Product Quantity (lbs) Component

9839

ETHYLENE GLYCOL

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 007  
Date Prepared: 03/31/99  
Date Printed: 06/19/03  
MSDS No: 301.0312030-002-010

ASHLAND FLEET ANTIFREEZE 50-50

Other Transportation Information

The DOT Transport Information may vary with the container and mode of shipment.

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)

| Component       | RQ (lbs) |
|-----------------|----------|
| ETHYLENE GLYCOL | 5000     |

CERCLA RQ - 40 CFR 302.4(b)

Materials without a "listed" RQ may be reportable as an "unlisted hazardous substance". See 40 CFR 302.5 (b).

SARA 302 Components - 40 CFR 355 Appendix A

Not applicable

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate(X) Delayed(X) Fire( ) Reactive( ) Sudden Release of Pressure( )

SARA 313 Components - 40 CFR 372.65

| Section 313 Component(s) | CAS Number | %     |
|--------------------------|------------|-------|
| ETHYLENE GLYCOL          | 107-21-1   | 50.81 |

OSHA Process Safety Management 29 CFR 1910

None listed

EPA Accidental Release Prevention 40 CFR 68

None listed

International Regulations

Inventory Status

Not determined

State and Local Regulations

California Proposition 65

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause cancer.

1,4-DIOXANE  
ETHYLENE OXIDE  
ACETALDEHYDE  
ARSENIC  
LEAD  
CADMIUM  
PROPYLENE OXIDE

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause reproductive harm.

ETHYLENE OXIDE  
ARSENIC  
LEAD

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 008  
Date Prepared: 03/31/99  
Date Printed: 06/19/03  
MSDS No: 301.0312030-002.010

ASHLAND FLEET ANTIFREEZE 50-50

---

CADMIUM

New Jersey RTK Label Information  
ETHYLENE GLYCOL

107-21-1

Pennsylvania RTK Label Information  
1,2-ETHANEDIOL

107-21-1

---

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

Last page

JUL-25-2003 FRI 04:48 PM

FOR:

RECEIVE

| DATE   | START    | SENDER     | RX TIME | PAGES | TYPE    | NOTE | M# | DP |
|--------|----------|------------|---------|-------|---------|------|----|----|
| JUL-25 | 04:42 PM | 5053933615 | 5'28"   | 15    | RECEIVE | OK   |    |    |

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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

JUL 21 2003  
Environmental Bureau  
Oil Conservation Division

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                          | 4. Generator Navajo Refining    |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5. Originating Site Artesia, NM |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6. Transporter D & J Waste      |
| 7. Location of Material (Street Address or ULSTR), 501 East Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8. State New Mexico             |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                 |

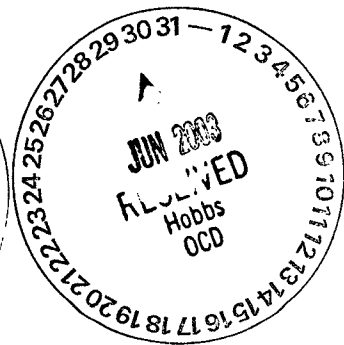
**BRIEF DESCRIPTION OF MATERIAL:**

RE: 06-25-03A

Dissolved air floatation (DAF) float.

Attached is Non-Exempt waste form and Analytical results.

This approval is for one year.



Estimated Volume 40 cy per week Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE David Parsons TITLE: VP DATE: 06-25-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: David Parsons TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
APPROVED BY: Monty J. [Signature] TITLE: Environmental Geologist DATE: 7-21-03

072103-1

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company  
ADDRESS: 501 East Main  
GENERATING SITE: Navajo Refining Company  
COUNTY: Eddy  
STATE: NM  
TYPE OF WASTE: Dissolved air floatation (DAF) float  
ESTIMATED VOLUME: Approximately 40 yards per week  
GENERATING PROCESS: Generated from the separation of solids from water  
During the treatment of Navajo's wastewater.  
REMARKS: Analysis and letter from the NMED enclosed  
NMOCD FACILITY: Controlled Recovery Incorporated  
TRUCKING COMPANY: D and J Waste

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: [Signature] SIGNATURE

NAME: Charlie Plymale  
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 6/24/03



Report Date: June 23, 2003

Work Order: 3060405  
Misc. TCLPPage Number: 1 of 2  
Artesia

## Summary Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: June 23, 2003

Work Order: 3060405

Project Location: Artesia  
Project Name: Misc. TCLP

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 8863   | DAF         | Sludge | 2003-06-03 | 11:00      | 2003-06-04    |

## Sample: 8863 - DAF

| Param                                | Flag | Result        | Units | RL      |
|--------------------------------------|------|---------------|-------|---------|
| Reactivity                           |      | non-reactive  |       | 0.00    |
| Hydrogen Sulfide                     |      | <10.0         | mg/Kg | 10.0    |
| Hydrogen Cyanide                     |      | <2.50         | mg/Kg | 2.50    |
| Corrosivity                          |      | non-corrosive | mm/yr | 0.00    |
| pH                                   |      | 7.10          | s.u.  | 0.00    |
| Ignitability                         |      | non-ignitable |       | 0.00    |
| TCLP Silver                          |      | <0.125        | mg/L  | 0.125   |
| Pyridine                             |      | <0.0500       | mg/L  | 10.0    |
| 1,4-Dichlorobenzene (para)           |      | <0.0500       | mg/L  | 10.0    |
| o-Cresol                             |      | <0.0500       | mg/L  | 10.0    |
| m,p-Cresol                           |      | 0.593         | mg/L  | 10.0    |
| Hexachloroethane                     |      | <0.0500       | mg/L  | 10.0    |
| Nitrobenzene                         |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobutadiene                  |      | <0.0500       | mg/L  | 10.0    |
| 2,4,6-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dinitrotoluene                   |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobenzene                    |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500       | mg/L  | 10.0    |
| Pentachlorophenol                    |      | <0.0500       | mg/L  | 10.0    |
| TCLP Arsenic                         |      | <0.100        | mg/L  | 0.100   |
| TCLP Barium                          |      | 0.519         | mg/L  | 0.100   |
| TCLP Cadmium                         |      | <0.0500       | mg/L  | 0.0500  |
| TCLP Chromium                        |      | <0.100        | mg/L  | 0.100   |
| TCLP Mercury                         |      | <0.0100       | mg/L  | 0.0100  |
| TCLP Lead                            |      | 0.205         | mg/L  | 0.0370  |
| TCLP Selenium                        |      | <0.500        | mg/L  | 0.500   |
| Vinyl Chloride                       |      | <0.0500       | mg/L  | 0.00100 |
| 1,1-Dichloroethene                   |      | <0.0500       | mg/L  | 0.00100 |
| 2-Butanone (MEK)                     |      | <0.500        | mg/L  | 0.0100  |
| Chloroform                           |      | <0.0500       | mg/L  | 0.00100 |

continued ...



Report Date: June 23, 2003

Work Order: 3060405  
Misc. TCLPPage Number: 2 of 2  
Artesia*sample 8563 continued ...*

| Param                      | Flag | Result  | Units | RL      |
|----------------------------|------|---------|-------|---------|
| 1,2-Dichloroethane (EDC)   |      | <0.0500 | mg/L  | 0.00100 |
| Benzene                    |      | <0.0500 | mg/L  | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500 | mg/L  | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500 | mg/L  | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500 | mg/L  | 0.00100 |
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.00100 |

B63-64

Page 1 of 1

6701 Aberdeen Avenue, Ste. 9  
Lubbock, Texas 79424  
Tel: (806) 794-1295  
Fax: (806) 794-1298  
1 (806) 578-1298

# TraceAnalysis, Inc.

155 McCutcheon, Suite H  
El Paso, Texas 79932  
Tel: (915) 885-3443  
Fax: (915) 885-4844  
1 (806) 580-3443

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID: 3060405

Company Name:

Mary's

Phone #:

505-746-5241

Address: (Street, City, Zip)

501 E. Main

Fax #:

505-746-5421

Contact Person:

Charles Phynale

Invoice to:

if different from above

Project #:

Project Name:

Misc. TULP

Project Location:

Atascosa

Sampler Signature:

Misc. TULP

LAB USE  
(LAB USE ONLY)

FIELD CODE

# CONTAINERS

Volume/Amount

WATER

SOIL

AIR

SLUDGE

HCL

HNO<sub>3</sub>H<sub>2</sub>SO<sub>4</sub>

NaOH

ICE

NONE

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

MTBE 8021B/602

BTEX 8021B/602

TPH 418.1/TX1005

PAM 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg 8010B/200.7

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC/MS Vol. 8260B/824

GC/MS Semi. Vol. 8270C/825

PCB's 8082/808

Pesticides 8081A/808

BOD, TSS, pH

Turn Around Time if different from standard

Hold

LAB USE ONLY

REMARKS:

Relinquished By: [Signature]

Date:

6/3/03

Time:

1615

Received by:

[Signature]

Date:

6/3/03

Time:

1615

Relinquished By:

Date:

Time:

Received by:

Date:

Time:

Date:

Time:

Date:

Time:

Date:

Time:

Date:

Time:

Date:

Time:

Date:

Time:

Headquarters: Y/N

☐ Check if Special Reporting Limits Are Needed

Submitted at Samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

Carrier # Fed 7913-9946-9305

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505



Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                          | 4. Generator Navajo Refining    |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5. Originating Site Artesia, NM |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6. Transporter D & J Waste      |
| 7. Location of Material (Street Address or ULSTR), 501 East Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8. State New Mexico             |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                 |

BRIEF DESCRIPTION OF MATERIAL:

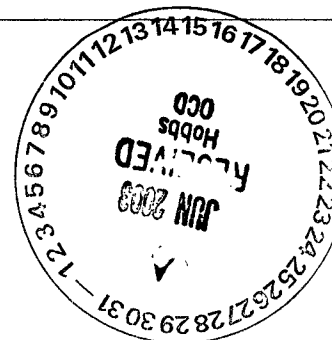
RE: 06-25-03B

FCC Drier Catalyst

Attached is Non-Exempt waste form and Analytical results.

This approval is for one time.

RECEIVED  
JUL 21 2003  
Environmental Bureau  
Oil Conservation Division



Estimated Volume 20 cy . Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE David Parsons TITLE: VP DATE: 06-25-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: David Parsons TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
APPROVED BY: Monty Gilly TITLE: Environmental Geologist DATE: 7-21-03

2501260

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company  
ADDRESS: 501 East Main  
GENERATING SITE: Navajo Refining Company  
COUNTY: Eddy  
STATE: NM  
TYPE OF WASTE: FCC DRIER CATALYST  
ESTIMATED VOLUME: 20 yards  
GENERATING PROCESS: Catalyst used in drying air in the FCC Unit.  
REMARKS: Analysis enclosed.  
NMOCD FACILITY: Controlled Recovery Incorporated  
TRUCKING COMPANY: D and J Waste



As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: [Signature] SIGNATURE

NAME: Charlie Plymale  
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 6/24/03



## REFINING COMPANY, L.P.

FAX

(505) 746-5283 DIV. ORDERS  
(505) 746-5481 TRUCKING  
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159  
TELEPHONE (505) 746-3311

FAX

(505) 746-5419 ACCOUNTING  
(505) 746-5451 EXEC/MKTG  
(505) 746-5421 ENGINEERING  
(505) 746-5480 PIPELINE

June 23, 2001

Ken Marsh  
CRI  
P.O. Box 388  
Hobbs, NM 88214

Ken,

Here is new analytical for the DAF that we are sending to your facility and a non exempt waste certificate for this material. This process has not changed. I am also including a waste certificate and analytical for an air drier catalyst from our FCC Unit. This catalyst is a one time approval and is approximately eight yards.

If you have any question feel free to call me at (505) 746-5241.

Sincerely,

Charlie Plymale  
Environmental Specialist

*An Independent Refinery Serving . . .*  
**NEW MEXICO • ARIZONA • WEST TEXAS • NORTHERN MEXICO**

Report Date: June 23, 2003

Work Order: 3060405  
Misc. TCLPPage Number: 1 of 2  
Artesia

## Summary Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: June 23, 2003

Work Order: 3060405

Project Location: Artesia  
Project Name: Misc. TCLP

| Sample | Description   | Matrix | Date Taken | Time Taken | Date Received |
|--------|---------------|--------|------------|------------|---------------|
| 8864   | FCC Prier Med | Solid  | 2003-06-03 | 15:30      | 2003-06-04    |

## Sample: 8864 - FCC Prier Med

| Param                                | Flag | Result        | Units | RL      |
|--------------------------------------|------|---------------|-------|---------|
| Reactivity                           |      | non-reactive  |       | 0.00    |
| Hydrogen Sulfide                     |      | <10.0         | mg/Kg | 10.0    |
| Hydrogen Cyanide                     |      | <2.50         | mg/Kg | 2.50    |
| Corrosivity                          |      | non-corrosive | mm/yr | 0.00    |
| pH                                   |      | 8.80          | s.u.  | 0.00    |
| Ignitability                         |      | non-ignitable |       | 0.00    |
| TCLP Silver                          |      | <0.125        | mg/L  | 0.125   |
| Pyridine                             |      | <0.0500       | mg/L  | 10.0    |
| 1,4-Dichlorobenzene (para)           |      | <0.0500       | mg/L  | 10.0    |
| o-Cresol                             |      | <0.0500       | mg/L  | 10.0    |
| m,p-Cresol                           |      | <0.0500       | mg/L  | 10.0    |
| Hexachloroethane                     |      | <0.0500       | mg/L  | 10.0    |
| Nitrobenzene                         |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobutadiene                  |      | <0.0500       | mg/L  | 10.0    |
| 2,4,6-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dinitrotoluene                   |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobenzene                    |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500       | mg/L  | 10.0    |
| Pentachlorophenol                    |      | <0.0500       | mg/L  | 10.0    |
| TCLP Arsenic                         |      | <0.100        | mg/L  | 0.100   |
| TCLP Barium                          |      | 2.03          | mg/L  | 0.100   |
| TCLP Cadmium                         |      | <0.0500       | mg/L  | 0.0500  |
| TCLP Chromium                        |      | <0.100        | mg/L  | 0.100   |
| TCLP Mercury                         |      | <0.0100       | mg/L  | 0.0100  |
| TCLP Lead                            |      | <0.0370       | mg/L  | 0.0370  |
| TCLP Selenium                        |      | <0.500        | mg/L  | 0.500   |
| Vinyl Chloride                       |      | <0.0500       | mg/L  | 0.00100 |
| 1,1-Dichloroethene                   |      | <0.0500       | mg/L  | 0.00100 |
| 2-Butanone (MEK)                     |      | <0.500        | mg/L  | 0.0100  |
| Chloroform                           |      | <0.0500       | mg/L  | 0.00100 |

continued ...

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

This is only a summary. Please, refer to the complete report package for quality control data.

06/19/2003 18:57 8067941298

TRACEANALYSIS

PAGE 04

Report Date: June 23, 2003

Work Order: 3060405  
Misc. TCLPPage Number: 2 of 2  
Artesia

sample 8864 continued ...

| Param                      | Flag | Result  | Units | RL      |
|----------------------------|------|---------|-------|---------|
| 1,2-Dichloroethane (EDC)   |      | <0.0500 | mg/L  | 0.00100 |
| Benzene                    |      | <0.0500 | mg/L  | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500 | mg/L  | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500 | mg/L  | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500 | mg/L  | 0.00100 |
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.00100 |

155 McCashtown, Suite H  
El Paso, Texas 79832  
Tel (915) 585-3443  
Fax (915) 585-4364  
1 (800) 508-3443

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID: 30070705

**PHONES:**

144001 (stand 300 710)

**Address:** (Street, City, Zip)

**下段表:**

**Combat Pardon:**

Charles Olynck

Project #:

**Project Name:**

**Project Location**

# Avicenna

**Sampler Signature:**

[illegible]

MTBE 8021B/60R  
BTEX 6021B/60Z  
TPH 41B-1/TX100S  
PAM 8270C  
Total Metals Ag As Ba Cd Cr Pb Se Hg 8010B/2D07  
TCLP Metals Ag As Ba Cd Cr Pb Se Hg  
TCLP Volatiles  
TCLP Semi Volatiles  
TCLP Pesticides  
RCI  
GC/MS Vol. 8260B/82A  
GC/MS Semi, Vol. 8270C/82S  
PCBs = 6082/608  
Pesticides 6081A/608  
BOD, TSS, pH

Turn Around Time if different from standard

**Hoic**

**LAB USE ONLY**

REMARKS:

## Check If Special Reporting Limits Are Needed

**Submittal of samples conforms to Terms and Conditions listed on reverse side of C.O.C.**

**ORIGINAL COPY.**



RECEIVED

State of New Mexico

Form C-138  
Revised March 17, 1999

District I  
1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

OIL CONSERVATION

DIVISION

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                          | 4. Generator Navajo Refining    |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5. Originating Site Artesia, NM |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6. Transporter D & J Waste      |
| 7. Location of Material (Street Address or ULSTR), 501 East Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8. State New Mexico             |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                 |

BRIEF DESCRIPTION OF MATERIAL:

RE: 07-07-03A

Contaminated Soil.

Attached is Non-Exempt waste form and Analytical results.

This approval is for one time.

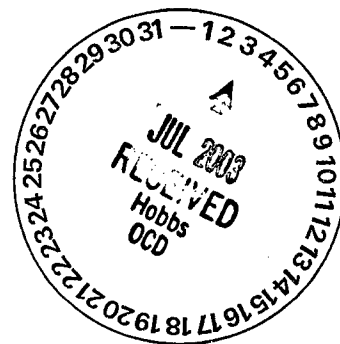
Estimated Volume 100 yards. Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers TITLE: Clerical DATE: 07-03-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: Shelly TITLE: Environmental Engr DATE: 7-17-03  
APPROVED BY: Monty TITLE: Environmental Geologist DATE: 7-21-03

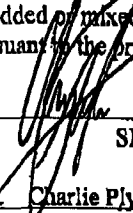


072103-3

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining CompanyADDRESS: 501 East MainGENERATING SITE: Navajo Refining CompanyCOUNTY: EddySTATE: NMTYPE OF WASTE: Contaminated soilESTIMATED VOLUME: 100 yardsGENERATING PROCESS: Contaminated soil removed for building of a concrete foundation for new tank near our CBO loading rack.REMARKS: Analysis enclosedNMOCD FACILITY: Controlled Recovery IncorporatedTRUCKING COMPANY: D and J Waste

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: 

SIGNATURE

NAME: Charlie Pymale

PRINTED

ADDRESS: 501 EAST MAINARTESIA, NM 88210DATE: 7/2/03



# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
155 McCutcheon, Suite H

Lubbock, Texas 79424  
El Paso, Texas 79932

800•378•1296  
888•588•3443

806•794•1296  
915•585•3443

FAX 806•794•1296  
FAX 915•585•4944

E-Mail: lab@traceanalysis.com

## Analytical and Quality Control Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: June 9, 2003

Work Order: 3052305

Project Location:  
Project Name:  
Project Number: N/A

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date<br>Taken | Time<br>Taken | Date<br>Received |
|--------|-------------|--------|---------------|---------------|------------------|
| 8122   | CBO DPL     | soil   | 2003-05-22    | 14:35         | 2003-05-23       |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

  
\_\_\_\_\_  
Dr. Blair Leftwich, Director

Report Date: June 9, 2003  
N/A

Work Order: 3052305

Page Number: 2 of 9

## Analytical Report

Sample: 8122 - CBO DPL

|                  |                                           |                  |
|------------------|-------------------------------------------|------------------|
| Analysis: RCI    | Analytical Method: ASTM D 5049-90/4978-95 | Prep Method: N/A |
| QC Batch: 2106   | Date Analyzed: 2003-06-09                 | Analyzed By: JH  |
| Prep Batch: 1892 | Date Prepared: 2003-06-09                 | Prepared By: JH  |
| Analysis: RCI    | Analytical Method: S 1110                 | Prep Method: N/A |
| Analysis: RCI    | Analytical Method: SW-846 Ch. 7.1         | Prep Method: N/A |

| Parameter        | Flag | RL<br>Result  | Units | Dilution | RL   |
|------------------|------|---------------|-------|----------|------|
| Reactivity       |      | non-reactive  |       | 1        | 0.00 |
| Hydrogen Sulfide |      | <10.0         | mg/Kg | 1        | 10.0 |
| Hydrogen Cyanide |      | <2.50         | mg/Kg | 1        | 2.50 |
| Corrosivity      |      | non-corrosive | mm/yr | 1        | 0.00 |
| pH               |      | 7.80          | s.u.  | 1        | 0.00 |
| Ignitability     |      | non-ignitable |       | 1        | 0.00 |

Sample: 8122 - CBO DPL

|                              |                            |                        |
|------------------------------|----------------------------|------------------------|
| Analysis: TCLP Semivolatiles | Analytical Method: S 8270C | Prep Method: TCLP 1311 |
| QC Batch: 2089               | Date Analyzed: 2003-06-05  | Analyzed By: RC        |
| Prep Batch: 1890             | Date Prepared: 2003-05-26  | Prepared By: JH        |

| Parameter                            | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------------------------------|------|--------------|-------|----------|------|
| Pyridine                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| o-Cresol                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| m,p-Cresol                           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachloroethane                     |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Nitrobenzene                         |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobutadiene                  |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,6-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dinitrotoluene                   |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobenzene                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Pentachlorophenol                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |

| Surrogate            | Flag | Result  | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|----------------------|------|---------|-------|----------|-----------------|---------------------|--------------------|
| 2-Fluorophenol       |      | 0.143   | mg/L  | 0.005    | 60.0            | 48                  | 2.83 - 110.33      |
| Phenol-d5            |      | 0.0956  | mg/L  | 0.005    | 60.0            | 32                  | 0 - 82.08          |
| Nitrobenzene-d5      |      | 0.287   | mg/L  | 0.005    | 60.0            | 96                  | 26.72 - 155        |
| 2-Fluorobiphenyl     |      | 0.264   | mg/L  | 0.005    | 60.0            | 88                  | 35.89 - 150.5      |
| 2,4,6-Tribromophenol |      | 0.00625 | mg/L  | 0.005    | 60.0            | 2                   | 0 - 204.91         |
| Terphenyl-d14        |      | 0.325   | mg/L  | 0.005    | 60.0            | 108                 | 33.98 - 168.85     |

Sample: 8122 - CBO DPL

|                               |                            |                        |
|-------------------------------|----------------------------|------------------------|
| Analysis: TCLP Total 8 Metals | Analytical Method: S 7470A | Prep Method: TCLP 1311 |
|-------------------------------|----------------------------|------------------------|

Report Date: June 9, 2003  
N/A

Work Order: 9052905

Page Number: 3 of 9

|                               |                            |                        |
|-------------------------------|----------------------------|------------------------|
| QC Batch: 2065                | Date Analyzed: 2003-06-06  | Analyzed By: BC        |
| Prep Batch: 1867              | Date Prepared: 2003-06-05  | Prepared By: BC        |
| Analysis: TCLP Total 8 Metals | Analytical Method: S 6010B | Prep Method: TCLP 1311 |
| QC Batch: 2085                | Date Analyzed: 2003-06-04  | Analyzed By: RR        |
| Prep Batch: 1707              | Date Prepared: 2003-05-28  | Prepared By: TP        |

| Parameter     | Flag | RL<br>Result | Units | Dilution | RL     |
|---------------|------|--------------|-------|----------|--------|
| TCLP Silver   |      | <0.125       | mg/L  | 1        | 0.125  |
| TCLP Arsenic  |      | <0.100       | mg/L  | 1        | 0.100  |
| TCLP Barium   |      | 1.56         | mg/L  | 1        | 0.100  |
| TCLP Cadmium  |      | <0.0500      | mg/L  | 1        | 0.0500 |
| TCLP Chromium |      | 0.112        | mg/L  | 1        | 0.100  |
| TCLP Mercury  |      | <0.0100      | mg/L  | 1        | 0.0100 |
| TCLP Lead     |      | 0.545        | mg/L  | 1        | 0.0370 |
| TCLP Selenium |      | <0.500       | mg/L  | 1        | 0.500  |

**Sample: 8122 - CBO DPL**

|                          |                            |                        |
|--------------------------|----------------------------|------------------------|
| Analysis: TCLP Volatiles | Analytical Method: S 8260B | Prep Method: TCLP 1311 |
| QC Batch: 2015           | Date Analyzed: 2003-06-04  | Analyzed By: JG        |
| Prep Batch: 1820         | Date Prepared: 2003-06-04  | Prepared By: JG        |

| Parameter                  | Flag | RL<br>Result | Units | Dilution | RL      |
|----------------------------|------|--------------|-------|----------|---------|
| Vinyl Chloride             |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,1-Dichloroethene         |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 2-Butanone (MEK)           |      | <0.500       | mg/L  | 50       | 0.0100  |
| Chloroform                 |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Benzene                    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Chlorobenzene              |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500      | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 55.0   | mg/L  | 1        | 50.0            | 110                 | 79 - 118           |
| Toluene-d8                   |      | 51.7   | mg/L  | 1        | 50.0            | 103                 | 86 - 114           |
| 4-Bromofluorobenzene (4-BFB) |      | 47.8   | mg/L  | 1        | 50.0            | 96                  | 79 - 116           |

**Method Blank (1) QC Batch: 2015**

| Parameter                | Flag | Result  | Units | RL    |
|--------------------------|------|---------|-------|-------|
| Vinyl Chloride           |      | <0.0500 | mg/L  | 0.001 |
| 1,1-Dichloroethene       |      | <0.0500 | mg/L  | 0.001 |
| 2-Butanone (MEK)         |      | <0.500  | mg/L  | 0.01  |
| Chloroform               |      | <0.0500 | mg/L  | 0.001 |
| 1,2-Dichloroethane (EDC) |      | <0.0500 | mg/L  | 0.001 |
| Benzene                  |      | <0.0500 | mg/L  | 0.001 |

continued ...

Report Date: June 9, 2003  
N/A

Work Order: 3052905

Page Number: 4 of 9

method blank continued ...

| Parameter                  | Flag | Result  | Units | RL    |
|----------------------------|------|---------|-------|-------|
| Carbon Tetrachloride       |      | <0.0500 | mg/L  | 0.001 |
| Trichloroethene (TCE)      |      | <0.0500 | mg/L  | 0.001 |
| Tetrachloroethene (PCE)    |      | <0.0500 | mg/L  | 0.001 |
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.001 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 54.3   | mg/L  | 1        | 50.0         | 109              | 79 - 118        |
| Toluene-d8                   |      | 51.4   | mg/L  | 1        | 50.0         | 103              | 86 - 114        |
| 4-Bromofluorobenzene (4-BFB) |      | 46.1   | mg/L  | 1        | 50.0         | 92               | 79 - 116        |

Method Blank (1) QC Batch: 2065

| Parameter    | Flag | Result  | Units | RL   |
|--------------|------|---------|-------|------|
| TCLP Mercury |      | <0.0100 | mg/L  | 0.01 |

Method Blank (1) QC Batch: 2086

| Parameter     | Flag | Result  | Units | RL    |
|---------------|------|---------|-------|-------|
| TCLP Silver   |      | <0.125  | mg/L  | 0.125 |
| TCLP Arsenic  |      | <0.100  | mg/L  | 0.1   |
| TCLP Barium   |      | <0.100  | mg/L  | 0.1   |
| TCLP Cadmium  |      | <0.0500 | mg/L  | 0.05  |
| TCLP Chromium |      | <0.100  | mg/L  | 0.1   |
| TCLP Lead     |      | <0.0370 | mg/L  | 0.037 |
| TCLP Selenium |      | <0.500  | mg/L  | 0.5   |

Method Blank (1) QC Batch: 2089

| Parameter                            | Flag | Result  | Units | RL |
|--------------------------------------|------|---------|-------|----|
| Pyridine                             |      | <0.0500 | mg/L  | 10 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500 | mg/L  | 10 |
| o-Cresol                             |      | <0.0500 | mg/L  | 10 |
| m,p-Cresol                           |      | <0.0500 | mg/L  | 10 |
| Hexachloroethane                     |      | <0.0500 | mg/L  | 10 |
| Nitrobenzene                         |      | <0.0500 | mg/L  | 10 |
| Hexachlorobutadiene                  |      | <0.0500 | mg/L  | 10 |
| 2,4,6-Trichlorophenol                |      | <0.0500 | mg/L  | 10 |
| 2,4,5-Trichlorophenol                |      | <0.0500 | mg/L  | 10 |
| 2,4-Dinitrotoluene                   |      | <0.0500 | mg/L  | 10 |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500 | mg/L  | 10 |
| Hexachlorobenzene                    |      | <0.0500 | mg/L  | 10 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500 | mg/L  | 10 |
| Pentachlorophenol                    |      | <0.0500 | mg/L  | 10 |

Report Date: June 9, 2003  
N/A

Work Order: 3052305

Page Number: 5 of 9

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 2-Fluorophenol       |      | 0.199  | mg/L  | 0.005    | 60.0         | 66               | 2.83 - 110.33   |
| Phenol-d5            |      | 0.156  | mg/L  | 0.005    | 60.0         | 52               | 0 - 82.08       |
| Nitrobenzene-d5      |      | 0.305  | mg/L  | 0.005    | 60.0         | 102              | 26.72 - 155     |
| 2-Fluorobiphenyl     |      | 0.296  | mg/L  | 0.005    | 60.0         | 99               | 35.89 - 150.5   |
| 2,4,6-Tribromophenol |      | 0.0188 | mg/L  | 0.005    | 60.0         | 6                | 0 - 204.91      |
| Terphenyl-d14        |      | 0.354  | mg/L  | 0.005    | 60.0         | 118              | 33.98 - 168.85  |

Duplicate (1) QC Batch: 2106

| Param            | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------|------------------|---------------|-------|----------|-----|-----------|
| Reactivity       | non-reactive     | non-reactive  |       | 1        | 0   |           |
| Hydrogen Sulfide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Hydrogen Cyanide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Corrosivity      | non-corrosive    | non-corrosive | mm/yr | 1        | 0   | 20        |
| pH               | 7.80             | 7.80          | s.u.  | 1        | 0   | 20        |
| Ignitability     | non-ignitable    | non-ignitable |       | 1        | 0   | 20        |

Laboratory Control Spike (LCS-1) QC Batch: 2015

| Param                      | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Vinyl Chloride             | 4.92       | 5.09        | mg/L  | 50   | 0.100        | <0.00845      | 98   | 3   | 55 - 131   | 20        |
| 1,1-Dichloroethene         | 5.19       | 5.34        | mg/L  | 50   | 0.100        | <0.00790      | 104  | 3   | 81 - 119   | 20        |
| 2-Butanone (MEK)           | 4.44       | 4.72        | mg/L  | 50   | 0.100        | <0.0185       | 89   | 6   | 41 - 157   | 20        |
| Chloroform                 | 4.94       | 5.05        | mg/L  | 50   | 0.100        | <0.00480      | 99   | 2   | 79 - 128   | 20        |
| 1,2-Dichloroethane (EDC)   | 5.18       | 5.26        | mg/L  | 50   | 0.100        | <0.00470      | 104  | 2   | 72 - 131   | 20        |
| Benzene                    | 5.01       | 5.13        | mg/L  | 50   | 0.100        | <0.00520      | 100  | 2   | 87 - 118   | 20        |
| Carbon Tetrachloride       | 5.66       | 5.66        | mg/L  | 50   | 0.100        | <0.00390      | 113  | 0   | 43 - 162   | 20        |
| Trichloroethene (TCE)      | 4.87       | 4.95        | mg/L  | 50   | 0.100        | <0.00585      | 97   | 2   | 78 - 110   | 20        |
| Tetrachloroethene (PCE)    | 3.95       | 4.01        | mg/L  | 50   | 0.100        | <0.0205       | 79   | 2   | 48 - 81    | 20        |
| Chlorobenzene              | 4.90       | 5.01        | mg/L  | 50   | 0.100        | <0.00300      | 98   | 2   | 90 - 111   | 20        |
| 1,4-Dichlorobenzene (para) | 4.86       | 5.00        | mg/L  | 50   | 0.100        | <0.00425      | 97   | 3   | 81 - 115   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Dibromofluoromethane         | 52.7       | 52.9        | mg/L  | 1    | 50.0         | 105      | 106       | 79 - 118   |
| Toluene-d8                   | 50.9       | 51.2        | mg/L  | 1    | 50.0         | 102      | 102       | 86 - 114   |
| 4-Bromofluorobenzene (4-BFB) | 47.6       | 47.4        | mg/L  | 1    | 50.0         | 95       | 95        | 79 - 116   |

Laboratory Control Spike (LCS-1) QC Batch: 2065

| Param                      | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Mercury <sup>12</sup> | 0.0424     | 0.0475      | mg/L  | 1    | 0.0500       | <0.000200     | 85   | 11  | 80 - 120   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

<sup>1</sup> no flag needed error in versalims<sup>2</sup> Changed spike amount from 0.001 to 0.05 due to error in versalims spike amount

Report Date: June 9, 2003  
N/A

Work Order: 3052305

Page Number: 6 of 9

## Laboratory Control Spike (LCS-1) QC Batch: 2085

| Param         | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Silver   | 1.34       | 1.35        | mg/L  | 1    | 1.25         | <0.00780      | 107  | 1   | 75 - 125   | 20        |
| TCLP Arsenic  | 4.36       | 4.50        | mg/L  | 1    | 5.00         | <0.0590       | 87   | 3   | 75 - 125   | 20        |
| TCLP Barium   | 10.9       | 11.0        | mg/L  | 1    | 10.0         | <0.00340      | 109  | 1   | 75 - 125   | 20        |
| TCLP Cadmium  | 2.70       | 2.73        | mg/L  | 1    | 2.50         | <0.00270      | 108  | 1   | 75 - 125   | 20        |
| TCLP Chromium | 1.08       | 1.09        | mg/L  | 1    | 1.00         | <0.00660      | 108  | 1   | 75 - 125   | 20        |
| TCLP Lead     | 5.32       | 4.95        | mg/L  | 1    | 5.00         | <0.0370       | 106  | 7   | 75 - 125   | 20        |
| TCLP Selenium | 4.74       | 4.81        | mg/L  | 1    | 5.00         | <0.100        | 95   | 1   | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1) QC Batch: 2089

| Param                                | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit     | RPD Limit |
|--------------------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|----------------|-----------|
| Pyridine                             | 28.4       | 29.0        | mg/L  | 1    | 60.0         | <2.41         | 47   | 2   | 12.6 - 50.02   | 20        |
| 1,4-Dichlorobenzene (para)           | 38.8       | 38.4        | mg/L  | 1    | 60.0         | <1.93         | 65   | 1   | 13.67 - 139.56 | 20        |
| o-Cresol                             | 40.3       | 40.4        | mg/L  | 1    | 60.0         | <1.46         | 67   | 0   | 18.58 - 114.05 | 20        |
| m,p-Cresol                           | 37.7       | 37.2        | mg/L  | 1    | 60.0         | <1.19         | 146  | 0   | 10.62 - 252.59 | 20        |
| Hexachloroethane                     | 50.5       | 49.6        | mg/L  | 1    | 60.0         | <1.91         | 84   | 2   | 25.17 - 146.78 | 20        |
| Nitrobenzene                         | 51.2       | 51.3        | mg/L  | 1    | 60.0         | <1.50         | 85   | 0   | 26.78 - 144.08 | 20        |
| Hexachlorobutadiene                  | 50.6       | 50.5        | mg/L  | 1    | 60.0         | <1.57         | 84   | 0   | 0 - 171.61     | 20        |
| 2,4,6-Trichlorophenol                | 50.3       | 50.6        | mg/L  | 1    | 60.0         | <1.64         | 84   | 0   | 19.23 - 144.93 | 20        |
| 2,4,5-Trichlorophenol                | 52.9       | 53.2        | mg/L  | 1    | 60.0         | <1.95         | 88   | 0   | 40.38 - 144.67 | 20        |
| 2,4-Dinitrotoluene                   | 57.8       | 58.2        | mg/L  | 1    | 60.0         | <2.09         | 96   | 1   | 18.51 - 158.26 | 20        |
| 2,4-Dichlorophenoxyacetic acid       | 75.9       | 76.4        | mg/L  | 1    | 60.0         | 0             | 126  | 1   | 0 - 165.81     | 20        |
| Hexachlorobenzene                    | 62.9       | 63.0        | mg/L  | 1    | 60.0         | <1.63         | 105  | 0   | 2.35 - 182.77  | 20        |
| 2,4,5-Trichlorophenoxypropionic acid | 70.2       | 72.0        | mg/L  | 1    | 60.0         | 0             | 117  | 2   | 22.1 - 144.74  | 20        |
| Pentachlorophenol                    | 59.8       | 59.6        | mg/L  | 1    | 60.0         | <3.04         | 100  | 0   | 0 - 156.72     | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit     |
|----------------------|------------|-------------|-------|------|--------------|----------|-----------|----------------|
| 2-Fluorophenol       | 33.0       | 34.1        | mg/L  | 1    | 60.0         | 55       | 57        | 2.83 - 110.33  |
| Phenol-d5            | 26.7       | 27.0        | mg/L  | 1    | 60.0         | 44       | 45        | 0 - 82.08      |
| Nitrobenzene-d5      | 54.6       | 54.7        | mg/L  | 1    | 60.0         | 91       | 91        | 26.72 - 155    |
| 2-Fluorobiphenyl     | 54.0       | 54.5        | mg/L  | 1    | 60.0         | 90       | 91        | 35.89 - 150.5  |
| 2,4,6-Tribromophenol | 39.1       | 39.4        | mg/L  | 1    | 60.0         | 65       | 66        | 0 - 204.91     |
| Terphenyl-d14        | 67.9       | 68.2        | mg/L  | 1    | 60.0         | 113      | 114       | 39.98 - 168.85 |

## Matrix Spike (MS-1) QC Batch: 2015

| Param                    | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Vinyl Chloride           | 5.18      | 5.13       | mg/L  | 50   | 0.100        | <0.00845      | 104  | 1   | 58 - 136   | 20        |
| 1,1-Dichloroethene       | 5.40      | 5.39       | mg/L  | 50   | 0.100        | <0.00790      | 108  | 0   | 81 - 125   | 20        |
| 2-Butanone (MEK)         | 4.21      | 4.23       | mg/L  | 50   | 0.100        | <0.0185       | 84   | 0   | 33 - 122   | 20        |
| Chloroform               | 5.13      | 5.14       | mg/L  | 50   | 0.100        | <0.00480      | 103  | 0   | 81 - 130   | 20        |
| 1,2-Dichloroethane (EDC) | 5.27      | 5.30       | mg/L  | 50   | 0.100        | <0.00470      | 105  | 0   | 76 - 137   | 20        |
| Benzene                  | 5.06      | 5.07       | mg/L  | 50   | 0.100        | <0.00520      | 101  | 0   | 88 - 121   | 20        |

continued ...



Report Date: June 9, 2003  
N/A

Work Order: 3052305

Page Number: 7 of 9

matrix spikes continued ...

| Param                      | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit | RPD<br>Limit |
|----------------------------|--------------|---------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| Carbon Tetrachloride       | 5.41         | 5.50          | mg/L  | 50   | 0.100           | <0.00390         | 108  | 2   | 56 - 156      | 20           |
| Trichloroethene (TCE)      | 4.83         | 4.80          | mg/L  | 50   | 0.100           | <0.00585         | 97   | 1   | 77 - 111      | 20           |
| Tetrachloroethene (PCE)    | 3.84         | 3.85          | mg/L  | 50   | 0.100           | <0.0205          | 77   | 0   | 48 - 80       | 20           |
| Chlorobenzene              | 4.93         | 4.96          | mg/L  | 50   | 0.100           | <0.00300         | 99   | 1   | 89 - 113      | 20           |
| 1,4-Dichlorobenzene (para) | 4.85         | 4.93          | mg/L  | 50   | 0.100           | <0.00425         | 97   | 2   | 82 - 113      | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 54.2         | 54.5          | mg/L  | 1    | 50              | 108        | 109         | 79 - 118      |
| Toluene-d8                   | 51.3         | 52.0          | mg/L  | 1    | 50              | 103        | 104         | 86 - 114      |
| 4-Bromofluorobenzene (4-BFB) | 47.8         | 48.2          | mg/L  | 1    | 50              | 96         | 96          | 79 - 116      |

Matrix Spike (MS-2) QC Batch: 2065

| Param                      | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit | RPD<br>Limit |
|----------------------------|--------------|---------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| TCLP Mercury <sup>84</sup> | 0.0527       | 0.0420        | mg/L  | 1    | 0.0500          | <0.000200        | 105  | 22  | 80 - 120      | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2085

| Param         | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit | RPD<br>Limit |
|---------------|--------------|---------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| TCLP Silver   | 1.34         | 1.32          | mg/L  | 1    | 1.25            | <0.00780         | 107  | 2   | 75 - 125      | 20           |
| TCLP Arsenic  | 4.24         | 4.65          | mg/L  | 1    | 5.00            | <0.0590          | 85   | 9   | 75 - 125      | 20           |
| TCLP Barium   | 13.1         | 12.9          | mg/L  | 1    | 10.0            | 2.41             | 107  | 2   | 75 - 125      | 20           |
| TCLP Cadmium  | 2.74         | 2.72          | mg/L  | 1    | 2.50            | <0.00270         | 110  | 1   | 75 - 125      | 20           |
| TCLP Chromium | 1.06         | 1.09          | mg/L  | 1    | 1.00            | 0.091            | 97   | 3   | 75 - 125      | 20           |
| TCLP Lead     | 5.71         | 5.78          | mg/L  | 1    | 5.00            | 0.839            | 97   | 1   | 75 - 125      | 20           |
| TCLP Selenium | 3.87         | 3.85          | mg/L  | 1    | 5.00            | <0.100           | 77   | 0   | 75 - 125      | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2039

| Param                      | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit  | RPD<br>Limit |
|----------------------------|--------------|---------------|-------|------|-----------------|------------------|------|-----|----------------|--------------|
| Pyridine                   | 19.8         | 19.1          | mg/L  | 1    | 60.0            | <2.41            | 33   | 4   | 12.6 - 50.02   | 20           |
| 1,4-Dichlorobenzene (para) | 40.5         | 36.6          | mg/L  | 1    | 60.0            | <1.93            | 68   | 10  | 13.67 - 139.56 | 20           |
| o-Cresol                   | 32.7         | 32.2          | mg/L  | 1    | 60.0            | <1.46            | 54   | 2   | 18.58 - 114.05 | 20           |
| m,p-Cresol                 | 65.8         | 64.4          | mg/L  | 1    | 60.0            | <1.19            | 110  | 2   | 10.62 - 252.59 | 20           |
| Hexachloroethane           | 51.4         | 50.3          | mg/L  | 1    | 60.0            | <1.91            | 86   | 2   | 25.17 - 148.78 | 20           |
| Nitrobenzene               | 51.8         | 50.4          | mg/L  | 1    | 60.0            | <1.50            | 86   | 3   | 26.78 - 144.08 | 20           |
| Hexachlorobutadiene        | 50.2         | 49.4          | mg/L  | 1    | 60.0            | <1.57            | 84   | 2   | 0 - 171.61     | 20           |
| 2,4,6-Trichlorophenol      | 48.3         | 48.8          | mg/L  | 1    | 60.0            | <1.64            | 80   | 1   | 19.23 - 144.93 | 20           |
| 2,4,5-Trichlorophenol      | 53.7         | 52.2          | mg/L  | 1    | 60.0            | <1.95            | 90   | 3   | 40.38 - 144.67 | 20           |

continued ...

<sup>3</sup> Changed spike amount from 0.001 to 0.05 due to error in versalims spike amount

<sup>4</sup> Changed spike amount from 0.001 to 0.05 due to error in versalims spike amount

Report Date: June 9, 2003  
N/A

Work Order: 3052305

Page Number: 8 of 9

matrix spikes continued ...

| Param                                | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit  | RPD<br>Limit |
|--------------------------------------|--------------|---------------|-------|------|-----------------|------------------|------|-----|----------------|--------------|
| 2,4-Dinitrotoluene                   | 55.4         | 55.9          | mg/L  | 1    | 60.0            | <2.09            | 92   | 1   | 18.51 - 158.26 | 20           |
| 2,4-Dichlorophenoxyacetic acid       | 70.2         | 73.4          | mg/L  | 1    | 60.0            | 0                | 117  | 4   | 0 - 165.81     | 20           |
| Hexachlorobenzene                    | 55.9         | 57.0          | mg/L  | 1    | 60.0            | <1.63            | 93   | 2   | 2.35 - 182.77  | 20           |
| 2,4,5-Trichlorophenoxypropionic acid | 66.6         | 68.1          | mg/L  | 1    | 60.0            | 0                | 111  | 2   | 22.1 - 144.74  | 20           |
| Pentachlorophenol                    | 59.3         | 59.1          | mg/L  | 1    | 60.0            | <3.04            | 99   | 0   | 0 - 156.72     | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit  |
|----------------------|--------------|---------------|-------|------|-----------------|------------|-------------|----------------|
| 2-Fluorophenol       | 23.6         | 24.3          | mg/L  | 1    | 60              | 39         | 40          | 2.83 - 110.33  |
| Phenol-d5            | 16.0         | 15.4          | mg/L  | 1    | 60              | 27         | 26          | 0 - 82.08      |
| Nitrobenzene-d5      | 57.0         | 55.6          | mg/L  | 1    | 60              | 95         | 93          | 26.72 - 155    |
| 2-Fluorobiphenyl     | 54.6         | 55.1          | mg/L  | 1    | 60              | 91         | 92          | 35.89 - 150.5  |
| 2,4,6-Tribromophenol | 35.2         | 35.5          | mg/L  | 1    | 60              | 59         | 59          | 0 - 204.91     |
| Terphenyl-d14        | 68.9         | 70.1          | mg/L  | 1    | 60              | 115        | 117         | 33.98 - 168.85 |

Standard (CCV-1) QC Batch: 2015

| Param                      | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Vinyl Chloride             |      | mg/L  | 50.0                  | 50.0                   | 100                         | 80 - 120                      | 2003-06-04       |
| 1,1-Dichloroethene         |      | mg/L  | 50.0                  | 48.0                   | 96                          | 80 - 120                      | 2003-06-04       |
| 2-Butanone (MEK)           |      | mg/L  | 50.0                  | 42.0                   | 84                          | 80 - 120                      | 2003-06-04       |
| Chloroform                 |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-06-04       |
| 1,2-Dichloroethane (EDC)   |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-06-04       |
| Benzene                    |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-06-04       |
| Carbon Tetrachloride       |      | mg/L  | 50.0                  | 52.0                   | 104                         | 80 - 120                      | 2003-06-04       |
| Trichloroethene (TCE)      |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-06-04       |
| Tetrachloroethene (PCE)    |      | mg/L  | 50.0                  | 52.0                   | 104                         | 80 - 120                      | 2003-06-04       |
| Chlorobenzene              |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-06-04       |
| 1,4-Dichlorobenzene (para) |      | mg/L  | 50.0                  | 47.0                   | 94                          | 80 - 120                      | 2003-06-04       |

Standard (ICV-1) QC Batch: 2065

| Param        | Flag         | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|--------------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Mercury | <sup>5</sup> | mg/L  | 0.00500               | 0.00505                | 101                         | 90 - 110                      | 2003-06-06       |

Standard (CCV-2) QC Batch: 2065

| Param        | Flag         | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|--------------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Mercury | <sup>6</sup> | mg/L  | 0.00500               | 0.00508                | 102                         | 80 - 120                      | 2003-06-06       |

Standard (ICV-1) QC Batch: 2085

<sup>5</sup> Changed spike amount from 0.001 to 0.005 due to error in versalims spike amount

<sup>6</sup> Changed spike amount from 0.001 to 0.005 due to error in versalims spike amount

Report Date: June 9, 2003  
N/A

Work Order: 3052305

Page Number: 9 of 9

| Param         | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Silver   |      | mg/L  | 0.125                 | 0.121                  | 97                          | 90 - 110                      | 2003-06-04       |
| TCLP Arsenic  |      | mg/L  | 1.00                  | 0.949                  | 95                          | 90 - 110                      | 2003-06-04       |
| TCLP Barium   |      | mg/L  | 1.00                  | 1.05                   | 105                         | 90 - 110                      | 2003-06-04       |
| TCLP Cadmium  |      | mg/L  | 1.00                  | 1.02                   | 102                         | 90 - 110                      | 2003-06-04       |
| TCLP Chromium |      | mg/L  | 1.00                  | 1.02                   | 102                         | 90 - 110                      | 2003-06-04       |
| TCLP Lead     |      | mg/L  | 1.00                  | 1.02                   | 102                         | 90 - 110                      | 2003-06-04       |
| TCLP Selenium |      | mg/L  | 1.00                  | 1.02                   | 102                         | 90 - 110                      | 2003-06-04       |

Standard (CCV-1) QC Batch: 2085

| Param         | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Silver   |      | mg/L  | 0.125                 | 0.133                  | 106                         | 90 - 110                      | 2003-06-04       |
| TCLP Arsenic  |      | mg/L  | 1.00                  | 1.07                   | 107                         | 90 - 110                      | 2003-06-04       |
| TCLP Barium   |      | mg/L  | 1.00                  | 1.06                   | 106                         | 90 - 110                      | 2003-06-04       |
| TCLP Cadmium  |      | mg/L  | 1.00                  | 1.01                   | 101                         | 90 - 110                      | 2003-06-04       |
| TCLP Chromium |      | mg/L  | 1.00                  | 1.02                   | 102                         | 90 - 110                      | 2003-06-04       |
| TCLP Lead     |      | mg/L  | 1.00                  | 0.998                  | 100                         | 90 - 110                      | 2003-06-04       |
| TCLP Selenium |      | mg/L  | 1.00                  | 0.923                  | 92                          | 90 - 110                      | 2003-06-04       |

Standard (CCV-1) QC Batch: 2089

| Param                                | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Pyridine                             |      | mg/L  | 60.0                  | 65.2                   | 109                         | 80 - 120                      | 2003-06-05       |
| 1,4-Dichlorobenzene (para)           |      | mg/L  | 60.0                  | 62.2                   | 104                         | 80 - 120                      | 2003-06-05       |
| o-Cresol                             |      | mg/L  | 60.0                  | 64.2                   | 107                         | 80 - 120                      | 2003-06-05       |
| m,p-Cresol                           |      | mg/L  | 60.0                  | 63.6                   | 106                         | 80 - 120                      | 2003-06-05       |
| Hexachloroethane                     |      | mg/L  | 60.0                  | 66.6                   | 111                         | 80 - 120                      | 2003-06-05       |
| Nitrobenzene                         |      | mg/L  | 60.0                  | 69.1                   | 115                         | 80 - 120                      | 2003-06-05       |
| Hexachlorobutadiene                  |      | mg/L  | 60.0                  | 66.5                   | 111                         | 80 - 120                      | 2003-06-05       |
| 2,4,6-Trichlorophenol                |      | mg/L  | 60.0                  | 64.0                   | 107                         | 80 - 120                      | 2003-06-05       |
| 2,4,5-Trichlorophenol                |      | mg/L  | 60.0                  | 62.8                   | 105                         | 80 - 120                      | 2003-06-05       |
| 2,4-Dinitrotoluene                   |      | mg/L  | 60.0                  | 64.6                   | 108                         | 80 - 120                      | 2003-06-05       |
| 2,4-Dichlorophenoxyacetic acid       |      | mg/L  | 60.0                  | 59.9                   | 100                         | 80 - 120                      | 2003-06-05       |
| Hexachlorobenzene                    |      | mg/L  | 60.0                  | 64.2                   | 90                          | 80 - 120                      | 2003-06-05       |
| 2,4,5-Trichlorophenoxypropionic acid |      | mg/L  | 60.0                  | 69.3                   | 116                         | 80 - 120                      | 2003-06-05       |
| Pentachlorophenol                    |      | mg/L  | 60.0                  | 59.8                   | 100                         | 80 - 120                      | 2003-06-05       |

| Surrogate            | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|----------------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| 2-Fluorophenol       |      | 65.0   | mg/L  | 1        | 60.0            | 108                 | 80 - 120          |
| Phenol-d5            |      | 63.4   | mg/L  | 1        | 60.0            | 106                 | 80 - 120          |
| Nitrobenzene-d5      |      | 68.3   | mg/L  | 1        | 60.0            | 114                 | 80 - 120          |
| 2-Fluorobiphenyl     |      | 61.5   | mg/L  | 1        | 60.0            | 102                 | 80 - 120          |
| 2,4,6-Tribromophenol |      | 57.7   | mg/L  | 1        | 60.0            | 96                  | 80 - 120          |
| Terphenyl-d14        |      | 61.9   | mg/L  | 1        | 60.0            | 103                 | 80 - 120          |



District I  
1625 N. French Dr., Hobbs, NM 88240

District II  
1301 W. Grand Avenue, Artesia, NM 88201

District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

JUL 21 2003

State of New Mexico

Energy Minerals and Natural Resources

Oil Conservation Division

OIL CONSERVATION DIVISION  
220 South St. Francis Dr.

DIVISION

Santa Fe, NM 87505

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                           | 4. Generator Navajo Refining    |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5. Originating Site Artesia, NM |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6. Transporter D & J Waste      |
| 7. Location of Material (Street Address or ULSTR), 501 East Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8. State New Mexico             |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                 |

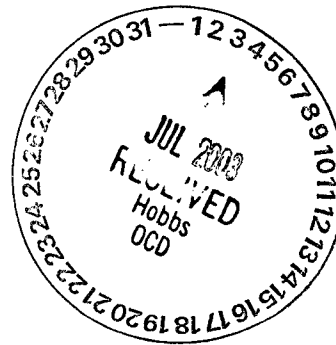
### BRIEF DESCRIPTION OF MATERIAL:

RE: 07-07-03B

Fluoride precipitator solids.

Attached is Non-Exempt waste form and Analytical results.

This approval is for one year.



Estimated Volume 360 barrels per week. Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Kim Flowers  
Waste Management Facility Authorized Agent

TITLE: Clerical DATE: 07-03-03

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: Charles Curry

TITLE: Environmental Engr

DATE: 7-17-03

APPROVED BY: Monty Jilly

TITLE: Environmental Geologist

DATE: 7-21-03

072103-4

**REFINING COMPANY, L.P.****FAX**

(505) 746-5283 DIV. ORDERS  
(505) 746-5481 TRUCKING  
(505) 746-5486 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159  
TELEPHONE (505) 746-3311

**FAX**

(505) 746-5419 ACCOUNTING  
(505) 746-5451 EXEC/MKTG  
(505) 746-5421 ENGINEERING  
(505) 746-5480 PIPELINE

July 2, 2003

Ken Marsh  
CRI  
P.O. Box 388  
Hobbs, NM 88214

Ken,

Here is new analytical for our Fluoride Precipitator solids. The process has not changed with this material. Also here is analytical for contaminated soil that was excavated near our CBO loading area this material is NON HAZARDOUS.

If you have any question please call me at (505) 746-5241.

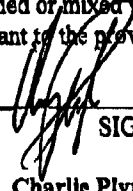
Sincerely,

Charlie Plymale  
Environmental Specialist

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining CompanyADDRESS: 501 East MainGENERATING SITE: Navajo Refining CompanyCOUNTY: EddySTATE: NMTYPE OF WASTE: Fluoride precipitator solidsESTIMATED VOLUME: Approximately 360 barrels per week.GENERATING PROCESS: Solids generated from the mixing of hydrofluoric acid from Navajo's alkylation unit with calcium chloride to remove fluorides.REMARKS: Analysis enclosedNMOCD FACILITY: Controlled Recovery IncorporatedTRUCKING COMPANY: D and J

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT:  SIGNATURENAME: Charlie Plymale  
PRINTEDADDRESS: 501 EAST MAINARTESIA, NM 88210DATE: 7/2/03

Report Date: June 24, 2008  
FI Prec Solid

Work Order: 8060514

Page Number: 1 of 2  
Artesia

## Summary Report

Charlto Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: June 24, 2003

Work Order: 3060514

Project Location: Artesia  
Project Number: FI Prec Solid

| Sample | Description    | Matrix | Date Taken | Time Taken | Date Received |
|--------|----------------|--------|------------|------------|---------------|
| 8984   | FI Prec Solids | soil   | 2003-06-04 | 11:00      | 2003-06-05    |

## Sample: 8984 - FI Prec Solids

| Param                                | Flag | Result        | Units | RL      |
|--------------------------------------|------|---------------|-------|---------|
| Reactivity                           |      | non-reactive  |       | 0.00    |
| Hydrogen Sulfide                     |      | <10.0         | mg/Kg | 10.0    |
| Hydrogen Cyanide                     |      | <2.50         | mg/Kg | 2.50    |
| Corrosivity                          |      | non-corrosive | mm/yr | 0.00    |
| pH                                   |      | 9.80          | s.u.  | 0.00    |
| Ignitability                         |      | non-ignitable |       | 0.00    |
| Pyridine                             |      | <0.0500       | mg/L  | 10.0    |
| 1,4-Dichlorobenzene (para)           |      | <0.0500       | mg/L  | 10.0    |
| o-Cresol                             |      | <0.0500       | mg/L  | 10.0    |
| m,p-Cresol                           |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorocyclopentadiene            |      | <0.0500       | mg/L  | 10.0    |
| Nitrobenzene                         |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobutadiene                  |      | <0.0500       | mg/L  | 10.0    |
| 2,4,6-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenol                |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dinitrotoluene                   |      | <0.0500       | mg/L  | 10.0    |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500       | mg/L  | 10.0    |
| Hexachlorobenzene                    |      | <0.0500       | mg/L  | 10.0    |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500       | mg/L  | 10.0    |
| Pentachlorophenol                    |      | <0.0500       | mg/L  | 10.0    |
| TCLP Silver                          |      | <0.125        | mg/L  | 0.125   |
| TCLP Arsenic                         |      | <0.100        | mg/L  | 0.100   |
| TCLP Barium                          |      | 0.781         | mg/L  | 0.100   |
| TCLP Cadmium                         |      | <0.0500       | mg/L  | 0.0500  |
| TCLP Chromium                        |      | <0.100        | mg/L  | 0.100   |
| TCLP Mercury                         |      | <0.0100       | mg/L  | 0.0100  |
| TCLP Lead                            |      | 0.534         | mg/L  | 0.0370  |
| TCLP Selenium                        |      | <0.500        | mg/L  | 0.500   |
| Vinyl Chloride                       |      | <0.0500       | mg/L  | 0.00100 |
| 1,1-Dichloroethene                   |      | <0.0500       | mg/L  | 0.00100 |
| 2-Butanone (MEK)                     |      | <0.500        | mg/L  | 0.0100  |
| Chloroform                           |      | <0.0500       | mg/L  | 0.00100 |

continued ...

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

This is only a summary. Please, refer to the complete report package for quality control data.



Report Date: June 24, 2003  
Fl. Prec Solid

Work Order: 3060514

Page Number: 2 of 2  
Artesia

sample 8884 continued ...

| Param                      | Flag | Result  | Units | RL      |
|----------------------------|------|---------|-------|---------|
| 1,2-Dichloroethane (EDC)   |      | <0.0500 | mg/L  | 0.00100 |
| Benzene                    |      | <0.0500 | mg/L  | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500 | mg/L  | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500 | mg/L  | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500 | mg/L  | 0.00100 |
| Chlorobenzene              |      | <0.0500 | mg/L  | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500 | mg/L  | 0.00100 |

6701 Aberdeen Avenue, Ste. 9  
Lubbock, Texas 79424  
Tel (806) 794-1295  
Fax (806) 794-1295  
1 (800) 378-1296

# TraceAnalysis, Inc.

155 McCulloch Blvd. H  
El Paso, Texas 79902  
Tel (915) 585-3400  
Fax (915) 585-6504  
1 (800) 588-3443

Company Name: Navajo Phone #: 505 7483311  
 Address: (Street, City, Zip) Fax #: 505 7465421  
 Contact Person: Charlie Phymale  
 Invoice to: (if different from above)  
 Project #: FL Prec. Solids  
 Project Location: Box 232  
 Project Name: FL Prec. Solids  
 Sampler Signature: [Signature]

| LAB #<br>(LAB USE ONLY) | FIELD CODE       | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                               |      |     |        | SAMPLING |      |
|-------------------------|------------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|-------------------------------|------|-----|--------|----------|------|
|                         |                  |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> O <sub>2</sub> | NaOH | ICE | NONE   | DATE     | TIME |
| 8984                    | FL. Prec. Solids | 1            | 1L            |        |      |     | X      |                     |                  |                               | X    | X   | 4/4/03 | 1100     |      |

Requisitioned by: [Signature] Date: 6/4/03 Time: 1615  
 Received by: [Signature] Date: 6/4/03 Time: 1615  
 Requisitioned by: [Signature] Date: 6/5/03 Time: 1045  
 Received by: [Signature] Date: 6/5/03 Time: 1045

Submitted of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.T.

ORIGINAL COPY

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3060517

### ANALYSIS REQUEST

(Circle or Specify Method No.)

|                                                  |   |
|--------------------------------------------------|---|
| MTBE 6021B/602                                   |   |
| BTEX 6021B/602                                   |   |
| TPH 416.1/7X1005                                 |   |
| PAH 8270C                                        |   |
| Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | X |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg              | X |
| TCLP Volatiles                                   | X |
| TCLP Semi Volatiles                              | X |
| TCLP Pesticides                                  | X |
| RCI                                              | X |
| GC/MS Vol. 8280B/624                             |   |
| GC/MS Semi. Vol. 8270C/625                       |   |
| PCB 8083/808                                     |   |
| Pesticides 8081A/808                             |   |
| BOD, TSS, PH                                     |   |
| Turn Around Time if different from standard      |   |

### REMARKS:

LAB USE ONLY  
 Instant: Y N  
 Headspace: Y N  
 Temp: 30  
 Cap in Place: 17

☐ Check if Special Handling Limits are needed

Carrier # 7903 0822 7851

hp officejet d135  
printer/fax/scanner/copier

Fax-History Report for  
C R I  
5053933615  
Jul 03 2003 2:14pm

---

**Last Transaction**

| <u>Date</u> | <u>Time</u> | <u>Type</u> | <u>Identification</u> | <u>Duration</u> | <u>Pages</u> | <u>Result</u> |
|-------------|-------------|-------------|-----------------------|-----------------|--------------|---------------|
| Jul 3       | 2:06pm      | Received    | 5057465421            | 3:11            | 16           | OK            |

---

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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

JUN 23 2003

Form C-138  
Revised March 17, 1999

Oil Conservation Division

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                              | 4. Generator ConocoPhillips      |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5. Originating Site Carlsbad, NM |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6. Transporter CRI               |
| 7. Location of Material (Street Address or ULSTR), Carlsbad Satellite office, Eddy Co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8. State New Mexico              |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing 220.9 will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                  |

BRIEF DESCRIPTION OF MATERIAL:

RE: 06-19-03A

Engine oil filters, adsorbent pads/socks Mole sieve dust filters, amine filters.

This waste stream has been approved in the past and is currently being disposed of at Lea County Landfill.  
Attached is Non-Exempt waste form and Analytical results.

This approval is for one year.

Estimated Volume 20 cy annually Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE

Waste Management Facility Authorized Agent

TITLE: VP

DATE: 06-19-03

TYPE OR PRINT NAME: David Parsons

TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY:

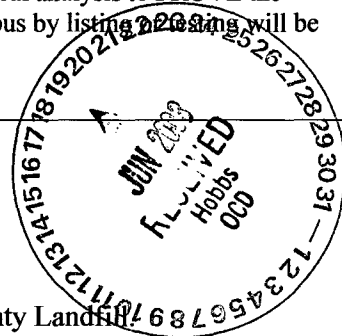
TITLE:

DATE:

APPROVED BY:

TITLE:

DATE: 6/24/03



1-501403-1

**Mark Bishop**  
Environmental Specialist  
Southeast New Mexico Operating Unit  
SH&E Services  
Gas Gathering & Processing

ConocoPhillips Inc.  
921 W. Sanger  
Hobbs, NM 88240  
Phone 505-391-1956  
Cell 281-380-0018  
mark.a.bishop@conocophillips.com

June 6, 2003

Controlled Recovery Inc.  
P.O. Box 388  
Hobbs New Mexico 88241

**RE: Special Waste Profile Renewal**  
**ConocoPhillips Midstream**  
**Southeast New Mexico Operating Unit**

Dear Mr. Parsons:

Attached are the new laboratory results of Special Wastes generated at our facilities in Southeast New Mexico. The results were obtained from ~~laboratory~~ composite samples of wastes from each of the accumulation sites serviced ~~by Waste Management Inc. and delivered to Controlled Recovery Inc.~~ The sampled wastes include used engine oil filters, absorbent pads and socks, predominately containing lube oil drippings from industrial engines/compressors and mole sieve dust filters. All liquid containing media is drained for a minimum of 24 hours before being placed in waste containers. The accumulation sites are located at our Carlsbad Satellite office in Eddy Co., Hobbs Gas Plant in Lea Co, and Antelope Ridge Gas Plant in Lea Co. Please approve to resumption of disposal of these wastes in the Controlled Recovery Inc. disposal facility.

If you have any questions or require more information please contact me at, 505-391-1956.

Sincerely,



Mark Bishop

CC: Joyce Miley  
Jeff Driver

File: 2805

Enclosed: Cardinal Lab test results



# ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88

ANALYTICAL RESULTS FOR  
CONOCO, INC.  
ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 06/28/02  
Reporting Date: 07/02/02  
Project Number: NOT GIVEN  
Project Name: WASTE PROFILE  
Project Location: NOT GIVEN

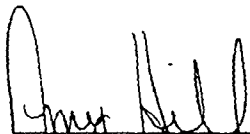
Sampling Date: 06/28/02  
Sample Type: SOLID  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: AH

## TCLP METALS

| LAB NO. | SAMPLE ID | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

|                             |          |          |          |          |          |          |          |          |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| ANALYSIS DATE:              | 06/11/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/11/02 |
| EPA LIMITS:                 | 5        | 5        | 100      | 1        | 5        | 5        | 0.2      | 1        |
| H6854-1 COMP. OF USED       | <1       | <1       | <5       | <0.1     | <1       | <1       | <0.02    | <0.1     |
| ENGINE OIL                  |          |          |          |          |          |          |          |          |
| FILTERS, ABSORB-            |          |          |          |          |          |          |          |          |
| ENT PADS, ABSORB-           |          |          |          |          |          |          |          |          |
| ENT SOCKS, MOLE             |          |          |          |          |          |          |          |          |
| SEIVE DUST FILTERS          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |
| Quality Control             | 0.056    | 4.872    | 26.35    | 1.003    | 4.793    | 5.030    | 0.0101   | 0.055    |
| True Value QC               | 0.050    | 5.000    | 25.00    | 1.000    | 5.000    | 5.000    | 0.0100   | 0.050    |
| % Recovery                  | 112      | 97.4     | 105      | 100      | 95.9     | 101      | 101      | 110      |
| Relative Standard Deviation | 2.1      | 0.3      | 1.7      | 0.1      | 1.3      | 0.1      | 1.0      | 6.2      |

|                               |       |       |       |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| METHODS: EPA 1311, 600/4-91/0 | 206.2 | 272.1 | 208.1 | 213.1 | 218.1 | 239.1 | 245.1 | 270.2 |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|

  
Chemist

7-2-02  
Date

H6854

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



**CERTIFICATE OF WASTE STATUS**  
**NON-EXEMPT WASTE MATERIAL**  
**"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

**COMPANY /GENERATOR** ConocoPhillips

**ADDRESS** 921 W. Sanger Hobbs, NM 88240

**GENERATING SITE** Hobbs Plant, Antelope Ridge Plant, Zia Plant and  
various associated compressor stations and facilities from Lea and Eddy Counties

**COUNTY** Lee/Eddy **STATE** NM

**TYPE OF WASTE** Engine oil filters, absorbent pads/socks Mole sieve dust  
filters, amine filters

**ESTIMATED VOLUME** 60 yards/year

**GENERATING PROCESS** Gas gathering pipeline leak to soil. Exempt material  
to be transported to Controlled Recovery Inc for proper disposal

**REMARKS** \_\_\_\_\_

**NMOCD FACILITY** Controlled Recovery Inc.

**TRUCKING COMPANY** ConocoPhillips

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory determinations. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

**AGENT** Mark Bishop  
**SIGNATURE**

**NAME** MARK BISHOP

**PRINTED**

**ADDRESS** 921 W. SANGER

HOBBS, NM 88240

**DATE** 6/9/2003



**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY /GENERATOR ConocoPhillips

ADDRESS 921 W. Sanger Hobbs, NM 88240

GENERATING SITE Hobbs Plant, Antelope Ridge Plant, Zia Plant and  
various associated compressor stations and facilities from Lea and Eddy Counties

COUNTY Lee/Eddy STATE NM

TYPE OF WASTE Engine oil filters, absorbent pads/socks Mole sieve dust  
filters, amine filters

ESTIMATED VOLUME 60 yards/year

GENERATING PROCESS Natural gas gathering and processing

REMARKS \_\_\_\_\_

NMOCD FACILITY Controlled Recovery Inc.

TRUCKING COMPANY ConocoPhillips

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory determinations. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Mark Bishop

SIGNATURE

NAME MARK BISHOP

PRINTED

ADDRESS 921 W. SANGER

HOBBS, NM 88240

DATE 6/9/2003

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                           | 4. Generator ConocoPhillips   |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5. Originating Site Hobbs, NM |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6. Transporter CRI            |
| 7. Location of Material (Street Address or ULSTR), Hobbs Gas Plant in Lea County                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8. State New Mexico           |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                               |

**BRIEF DESCRIPTION OF MATERIAL:**

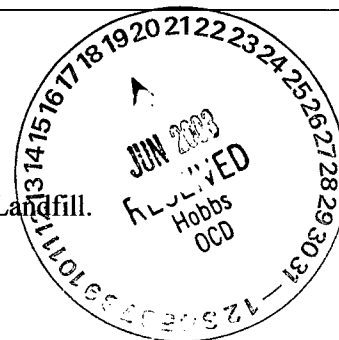
RE: 06-19-03B

Engine oil filters, adsorbent pads/socks Mole sieve dust filters, amine filters.

This waste stream has been approved in the past and is currently being disposed of at Lea County Landfill.

Attached is Non-Exempt waste form and Analytical results.

This approval is for one year.



Estimated Volume 20 cy annually Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE David Parsons TITLE: VP DATE: 06-19-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: David Parsons TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
APPROVED BY: Monty J. 384 TITLE: Environmental Geologist DATE: 6/24/03

2-601290

**Mark Bishop**  
Environmental Specialist  
Southeast New Mexico Operating Unit  
SH&E Services  
Gas Gathering & Processing

ConocoPhillips Inc.  
921 W. Sanger  
Hobbs, NM 88240  
Phone 505-391-1956  
Cell 281-380-0018  
mark.a.bishop@conocophillips.com

June 6, 2003

Controlled Recovery Inc.  
P.O. Box 388  
Hobbs New Mexico 88241

**RE: Special Waste Profile Renewal  
ConocoPhillips Midstream  
Southeast New Mexico Operating Unit**

Dear Mr. Parsons:

Attached are the new laboratory results of Special Wastes generated at our facilities in Southeast New Mexico. The results were obtained from ~~line~~ composite samples of wastes from each of the accumulation sites serviced ~~by Waste Management Inc. and delivered to Controlled Recovery Inc.~~ The sampled wastes include used engine oil filters, absorbent pads and socks, predominately containing lube oil drippings from industrial engines/compressors and mole sieve dust filters. All liquid containing media is drained for a minimum of 24 hours before being placed in waste containers. The accumulation sites are located at our Carlsbad Satellite office in Eddy Co., Hobbs Gas Plant in Lea Co, and Antelope Ridge Gas Plant in Lea Co. Please approve to resumption of disposal of these wastes in the Controlled Recovery Inc. disposal facility.

If you have any questions or require more information please contact me at, 505-391-1956.

Sincerely,

  
Mark Bishop

CC: Joyce Miley  
Jeff Driver

File: 2805

Enclosed: Cardinal Lab test results



# ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 8

ANALYTICAL RESULTS FOR  
CONOCO, INC.  
ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 06/28/02  
Reporting Date: 07/02/02  
Project Number: NOT GIVEN  
Project Name: WASTE PROFILE  
Project Location: NOT GIVEN

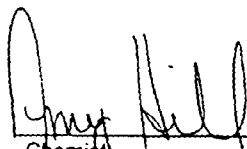
Sampling Date: 06/28/02  
Sample Type: SOLID  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: AH

## TCLP METALS

| LAB NO. | SAMPLE ID | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

|                             |          |          |          |          |          |          |          |          |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| ANALYSIS DATE:              | 06/11/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/11/02 |
| EPA LIMITS:                 | 5        | 5        | 100      | 1        | 5        | 5        | 0.2      | 1        |
| H6854-1 COMP. OF USED       | <1       | <1       | <5       | <0.1     | <1       | <1       | <0.02    | <0.1     |
| ENGINE OIL                  |          |          |          |          |          |          |          |          |
| FILTERS, ABSORB-            |          |          |          |          |          |          |          |          |
| ENT PADS, ABSORB-           |          |          |          |          |          |          |          |          |
| ENT SOCKS, MOLE             |          |          |          |          |          |          |          |          |
| SEIVE DUST FILTERS          |          |          |          |          |          |          |          |          |
| Quality Control             | 0.056    | 4.872    | 26.35    | 1.003    | 4.793    | 5.030    | 0.0101   | 0.055    |
| True Value QC               | 0.050    | 5.000    | 25.00    | 1.000    | 5.000    | 5.000    | 0.0100   | 0.050    |
| % Recovery                  | 112      | 97.4     | 105      | 100      | 95.9     | 101      | 101      | 110      |
| Relative Standard Deviation | 2.1      | 0.3      | 1.7      | 0.1      | 1.3      | 0.1      | 1.0      | 6.2      |

|                               |       |       |       |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| METHODS: EPA 1311, 600/4-91/0 | 206.2 | 272.1 | 208.1 | 213.1 | 218.1 | 239.1 | 245.1 | 270.2 |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|

  
Chemist

7-2-02  
Date

H6854

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



# CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(816) 673-7001 Fax (816) 673-7020 (505) 393-2328 Fax (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page \_\_\_\_ of \_\_\_\_

|                                                 |                                 |                                    |                        |                       |                      |
|-------------------------------------------------|---------------------------------|------------------------------------|------------------------|-----------------------|----------------------|
| Company Name: <u>Cardano Inc.</u>               |                                 | P.O. #: <u>111111</u>              |                        | ANALYSIS REQUEST      |                      |
| Project Manager: <u>Mark Bishop</u>             |                                 | Company: <u>Cardano</u>            |                        |                       |                      |
| Address: <u>921 W. 5th St.</u>                  |                                 | City: <u>Hobbs NM</u>              |                        |                       |                      |
| State: <u>NM</u> Zip: <u>88240</u>              |                                 | Address: <u>101 East Marland</u>   |                        |                       |                      |
| Phone #: <u>391 1954</u> Fax #: <u>393 2476</u> |                                 | City: <u>Hobbs NM</u>              |                        |                       |                      |
| Project #: <u>Waste Profile</u>                 |                                 | State: <u>NM</u> Zip: <u>88240</u> |                        |                       |                      |
| Project Location: <u>Waste Profile</u>          |                                 | Phone #: <u>391 1954</u>           |                        |                       |                      |
| Sampler Name: <u>For Lab Use Only</u>           |                                 | Fax #: <u>393 2476</u>             |                        |                       |                      |
| Lab I.D. <u>H10854-1</u>                        | Sample I.D. <u>Composite of</u> | (G)RAB OR (C)OMP. <u>  </u>        | # CONTAINERS <u>  </u> | GROUNDWATER <u>  </u> | WASTEWATER <u>  </u> |
|                                                 | <u>Used engine oil filters</u>  | SOIL <u>  </u>                     | OR <u>  </u>           | SLUDGE <u>  </u>      | OTHER: <u>  </u>     |
|                                                 | <u>Absorbent pads</u>           | ACID/BASE: <u>  </u>               | ICE / COOL <u>  </u>   | OTHER: <u>  </u>      |                      |
|                                                 | <u>Absorbent socks</u>          |                                    |                        |                       |                      |
|                                                 | <u>Moisture dust filters</u>    |                                    |                        |                       |                      |
| DATE: <u>10/28/02</u> TIME: <u>10:28 AM</u>     |                                 |                                    |                        |                       |                      |
| Sampler: <u>Mark Bishop</u>                     |                                 |                                    |                        |                       |                      |
| Relinquished By: <u>Mark Bishop</u>             |                                 |                                    |                        |                       |                      |
| Date: <u>10/28/02</u> Time: <u>9:15 AM</u>      |                                 |                                    |                        |                       |                      |
| Received By: <u>Mark Bishop</u>                 |                                 |                                    |                        |                       |                      |
| Date: <u>10/28/02</u> Time: <u>9:15 AM</u>      |                                 |                                    |                        |                       |                      |
| Delivered By: (Circle One) <u>  </u>            |                                 |                                    |                        |                       |                      |
| Sampler - UPS - Bure - Other: <u>  </u>         |                                 |                                    |                        |                       |                      |
| Remarks: <u>  </u>                              |                                 |                                    |                        |                       |                      |

† Cardinal cannot accept verbal changes. Please fax written changes to (816) 673-7020.

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

**COMPANY /GENERATOR** ConocoPhillips

**ADDRESS** 921 W. Sanger Hobbs, NM 88240

**GENERATING SITE** Hobbs Plant, Antelope Ridge Plant, Zia Plant and  
various associated compressor stations and facilities from Lea and Eddy Counties

**COUNTY** Lee/Eddy **STATE** NM

**TYPE OF WASTE** Engine oil filters, absorbent pads/socks Mole sieve dust  
filters, amine filters

**ESTIMATED VOLUME** 60 yards/year

**GENERATING PROCESS** Gas gathering pipeline leak to soil. Exempt material  
to be transported to Controlled Recovery Inc for proper disposal

**REMARKS** \_\_\_\_\_

**NMOCD FACILITY** Controlled Recovery Inc.

**TRUCKING COMPANY** ConocoPhillips

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory determinations. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

**AGENT** Mark Bishop  
**SIGNATURE**

**NAME** MARK BISHOP

**PRINTED**

**ADDRESS** 921 W. SANGER

HOBBS, NM 88240

**DATE** 6/9/2003

**CERTIFICATE OF WASTE STATUS**  
**NON-EXEMPT WASTE MATERIAL**  
**"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY /GENERATOR ConocoPhillips

ADDRESS 921 W. Sanger Hobbs, NM 88240

GENERATING SITE Hobbs Plant, Antelope Ridge Plant, Zia Plant and  
various associated compressor stations and facilities from Lea and Eddy Counties

COUNTY Lee/Eddy STATE NM

TYPE OF WASTE Engine oil filters, absorbent pads/socks Mole sieve dust  
filters, amine filters

ESTIMATED VOLUME 60 yards/year

GENERATING PROCESS Natural gas gathering and processing

REMARKS \_\_\_\_\_

NMOCD FACILITY Controlled Recovery Inc.

TRUCKING COMPANY ConocoPhillips

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory determinations. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Mark Bishop  
SIGNATURE

NAME MARK BISHOP

PRINTED

ADDRESS 921 W. SANGER

HOBBS, NM 88240

DATE 6/9/2003

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator ConocoPhillips                  |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5. Originating Site Antelope Ridge Gas Plant |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6. Transporter CRI                           |
| 7. Location of Material (Street Address or ULSTR), Antelope Ridge Gas Plant, Lea Co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8. State New Mexico                          |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                              |

**BRIEF DESCRIPTION OF MATERIAL:**

RE: 06-19-03C

Engine oil filters, adsorbent pads/socks Mole sieve dust filters, amine filters.

This waste stream has been approved in the past and is currently being disposed of at Lea County Landfill.

Attached is Non-Exempt waste form and Analytical results.

This approval is for one year.

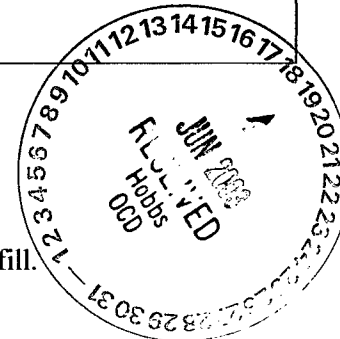
Estimated Volume 20 cy annually Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE David Parsons TITLE: VP DATE: 06-19-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: David Parsons TELEPHONE NO: (505) 393-1079

(This space for State Use)

|                                           |                                       |                      |
|-------------------------------------------|---------------------------------------|----------------------|
| APPROVED BY: _____                        | TITLE: _____                          | DATE: _____          |
| APPROVED BY: <u>Martyn J. [Signature]</u> | TITLE: <u>Environmental Geologist</u> | DATE: <u>6/24/03</u> |



062403-3



Mark Bishop  
Environmental Specialist  
Southeast New Mexico Operating Unit  
SH&E Services  
Gas Gathering & Processing

ConocoPhillips Inc.  
921 W. Sanger  
Hobbs, NM 88240  
Phone 505-391-1956  
Cell 281-380-0018  
mark.a.bishop@conocophillips.com

June 6, 2003

Controlled Recovery Inc.  
P.O. Box 388  
Hobbs New Mexico 88241

**RE: Special Waste Profile Renewal  
ConocoPhillips Midstream  
Southeast New Mexico Operating Unit**

Dear Mr. Parsons:

Attached are the new laboratory results of Special Wastes generated at our facilities in Southeast New Mexico. The results were obtained from composite samples of wastes from each of the accumulation sites serviced by Waste Management Inc. and delivered to Controlled Recovery Inc. The sampled wastes include used engine oil filters, absorbent pads and socks predominately containing lube oil drippings from industrial engines/compressors and mole sieve dust filters. All liquid containing media is drained for a minimum of 24 hours before being placed in waste containers. The accumulation sites are located at our Carlsbad Satellite office in Eddy Co., Hobbs Gas Plant in Lea Co, and Antelope Ridge Gas Plant in Lea Co. Please approve to resumption of disposal of these wastes in the Controlled Recovery Inc. disposal facility.

If you have any questions or require more information please contact me at, 505-391-1956.

Sincerely,

  
Mark Bishop

CC: Joyce Miley  
Jeff Driver

File: 2805

Enclosed: Cardinal Lab test results



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX  
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88401

ANALYTICAL RESULTS FOR  
CONOCO, INC.  
ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 06/28/02  
Reporting Date: 07/02/02  
Project Number: NOT GIVEN  
Project Name: WASTE PROFILE  
Project Location: NOT GIVEN

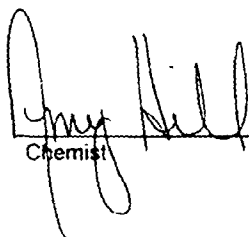
Sampling Date: 06/28/02  
Sample Type: SOLID  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: AH

TCLP METALS

| LAB NO. | SAMPLE ID | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

|                             |          |          |          |          |          |          |          |          |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| ANALYSIS DATE:              | 06/11/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/11/02 |
| EPA LIMITS:                 | 5        | 5        | 100      | 1        | 5        | 5        | 0.2      | 1        |
| H6854-1 COMP. OF USED       | <1       | <1       | <5       | <0.1     | <1       | <1       | <0.02    | <0.1     |
| ENGINE OIL                  |          |          |          |          |          |          |          |          |
| FILTERS, ABSORB-            |          |          |          |          |          |          |          |          |
| ENT PADS, ABSORB-           |          |          |          |          |          |          |          |          |
| ENT SOCKS, MOLE             |          |          |          |          |          |          |          |          |
| SEIVE DUST FILTERS          |          |          |          |          |          |          |          |          |
| Quality Control             | 0.056    | 4.872    | 26.35    | 1.003    | 4.793    | 5.030    | 0.0101   | 0.055    |
| True Value QC               | 0.050    | 5.000    | 25.00    | 1.000    | 5.000    | 5.000    | 0.0100   | 0.050    |
| % Recovery                  | 112      | 97.4     | 105      | 100      | 95.9     | 101      | 101      | 110      |
| Relative Standard Deviation | 2.1      | 0.3      | 1.7      | 0.1      | 1.3      | 0.1      | 1.0      | 6.2      |

|                               |       |       |       |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| METHODS: EPA 1311, 600/4-91/0 | 206.2 | 272.1 | 208.1 | 213.1 | 218.1 | 239.1 | 245.1 | 270.2 |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|

  
Chemist

7-2-02  
Date

H6854

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



**ARDINAL LABORATORIES, INC.**

111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(815) 673-7001 Fax (815) 873-7020 (605) 393-2328 Fax (605) 393-2478

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page        of       [illegible]

**CERTIFICATE OF WASTE STATUS**  
**NON-EXEMPT WASTE MATERIAL**  
**"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

**COMPANY /GENERATOR** ConocoPhillips

**ADDRESS** 921 W. Sanger Hobbs, NM 88240

**GENERATING SITE** Hobbs Plant, Antelope Ridge Plant, Zia Plant and various associated compressor stations and facilities from Lea and Eddy Counties

**COUNTY** Lee/Eddy **STATE** NM

**TYPE OF WASTE** Engine oil filters, absorbent pads/socks Mole sieve dust filters, amine filters

**ESTIMATED VOLUME** 60 yards/year

**GENERATING PROCESS** Gas gathering pipeline leak to soil. Exempt material to be transported to Controlled Recovery Inc for proper disposal

**REMARKS** \_\_\_\_\_

**NMOCD FACILITY** Controlled Recovery Inc.

**TRUCKING COMPANY** ConocoPhillips

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory determinations. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

**AGENT** Mark Bishop

**SIGNATURE**

**NAME** MARK BISHOP

**PRINTED**

**ADDRESS** 921 W. SANGER

HOBBS, NM 88240

**DATE** 6/9/2003

**CERTIFICATE OF WASTE STATUS**  
**NON-EXEMPT WASTE MATERIAL**  
**"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY /GENERATOR ConocoPhillips

ADDRESS 921 W. Sanger Hobbs, NM 88240

GENERATING SITE Hobbs Plant, Antelope Ridge Plant, Zia Plant and  
various associated compressor stations and facilities from Lea and Eddy Counties

COUNTY Lee/Eddy STATE NM

TYPE OF WASTE Engine oil filters, absorbent pads/socks Mole sieve dust  
filters, amine filters

ESTIMATED VOLUME 60 yards/year

GENERATING PROCESS Natural gas gathering and processing

REMARKS \_\_\_\_\_

NMOCD FACILITY Controlled Recovery Inc.

TRUCKING COMPANY ConocoPhillips

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory determinations. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Mark Bishop

SIGNATURE

NAME MARK BISHOP

PRINTED

ADDRESS 921 W. SANGER

HOBBS, NM 88240

DATE 6/9/2003

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                  | 4. Generator ConocoPhillips   |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Hobbs, NM |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6. Transporter CRI            |
| 7. Location of Material (Street Address or ULSTR), 921 W Sanger, Hobbs, NM 88240                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8. State New Mexico           |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                               |

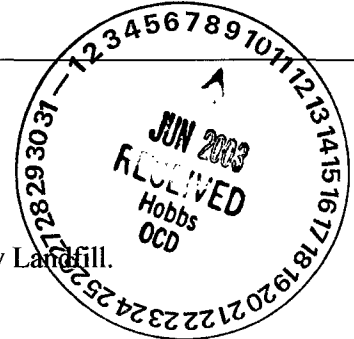
### BRIEF DESCRIPTION OF MATERIAL:

RE: 06-01-03

Engine oil filters, adsorbent pads/socks Mole sieve dust filters, amine filters.

This waste stream has been approved in the past and is currently being disposed of at Lea County Landfill.

Attached is Non-Exempt waste form and Analytical results.



Estimated Volume 60 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE David Parsons TITLE: VP DATE: 06-09-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: David Parsons TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: [Signature] TITLE: ENVIRO ENGR DATE: 6-12-03

APPROVED BY: DENIED TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

Please process as 3 individual sites and Note the Waste Volume over what period of time. year? month? one trip? Thanks Markye H. 6-18-03

1-501803-1



**Mark Bishop**  
Environmental Specialist  
Southeast New Mexico Operating Unit  
SH&E Services  
Gas Gathering & Processing

ConocoPhillips Inc.  
921 W. Sanger  
Hobbs, NM 88240  
Phone 505-391-1956  
Cell 281-380-0018  
mark.a.bishop@conocophillips.com

June 6, 2003

Controlled Recovery Inc.  
P.O. Box 388  
Hobbs New Mexico 88241

**RE: Special Waste Profile Renewal  
ConocoPhillips Midstream  
Southeast New Mexico Operating Unit**

Dear Mr. Parsons:

Attached are the new laboratory results of Special Wastes generated at our facilities in Southeast New Mexico. The results were obtained from composite samples of wastes from each of the accumulation sites serviced by Waste Management Inc. and delivered to Controlled Recovery Inc. The sampled wastes include used engine oil filters, absorbent pads and socks predominately containing lube oil drippings from industrial engines/compressors and mole sieve dust filters. All liquid containing media is drained for a minimum of 24 hours before being placed in waste containers. The accumulation sites are located at our Carlsbad Satellite office in Eddy Co., Hobbs Gas Plant in Lea Co, and Antelope Ridge Gas Plant in Lea Co. Please approve to resumption of disposal of these wastes in the Controlled Recovery Inc. disposal facility.

If you have any questions or require more information please contact me at, 505-391-1956.

Sincerely,

  
Mark Bishop

CC: Joyce Miley  
Jeff Driver

File: 2805

Enclosed: Cardinal Lab test results



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONOCO, INC.  
ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 06/28/02  
Reporting Date: 07/02/02  
Project Number: NOT GIVEN  
Project Name: WASTE PROFILE  
Project Location: NOT GIVEN

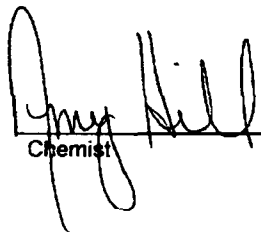
Sampling Date: 06/28/02  
Sample Type: SOLID  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: AH

## TCLP METALS

| LAB NO. | SAMPLE ID | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

|                                                                                |          |          |          |          |          |          |          |          |
|--------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| ANALYSIS DATE:                                                                 | 06/11/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/12/02 | 06/11/02 |
| EPA LIMITS:                                                                    | 5        | 5        | 100      | 1        | 5        | 5        | 0.2      | 1        |
| H6854-1 COMP. OF USED<br>ENGINE OIL                                            | <1       | <1       | <5       | <0.1     | <1       | <1       | <0.02    | <0.1     |
| FILTERS, ABSORB-<br>ENT PADS, ABSORB-<br>ENT SOCKS, MOLE<br>SEIVE DUST FILTERS |          |          |          |          |          |          |          |          |
| Quality Control                                                                | 0.056    | 4.872    | 26.35    | 1.003    | 4.793    | 5.030    | 0.0101   | 0.055    |
| True Value QC                                                                  | 0.050    | 5.000    | 25.00    | 1.000    | 5.000    | 5.000    | 0.0100   | 0.050    |
| % Recovery                                                                     | 112      | 97.4     | 105      | 100      | 95.9     | 101      | 101      | 110      |
| Relative Standard Deviation                                                    | 2.1      | 0.3      | 1.7      | 0.1      | 1.3      | 0.1      | 1.0      | 6.2      |

|                               |       |       |       |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| METHODS: EPA 1311, 600/4-91/0 | 206.2 | 272.1 | 208.1 | 213.1 | 218.1 | 239.1 | 245.1 | 270.2 |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|

  
Chemist

7-2-02  
Date

H6854

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





**• CARDINAL LABORATORIES, INC.**

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page \_\_\_\_ of \_\_\_\_

[illegible]

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

**COMPANY /GENERATOR** ConocoPhillips

**ADDRESS** 921 W. Sanger Hobbs, NM 88240

**GENERATING SITE** Hobbs Plant, Antelope Ridge Plant, Zia Plant and  
various associated compressor stations and facilities from Lea and Eddy Counties

**COUNTY** Lee/Eddy **STATE** NM

**TYPE OF WASTE** Engine oil filters, absorbent pads/socks Mole sieve dust  
filters, amine filters

**ESTIMATED VOLUME** 60 yards/year

**GENERATING PROCESS** Gas gathering pipeline leak to soil. Exempt material  
to be transported to Controlled Recovery Inc for proper disposal

**REMARKS** \_\_\_\_\_

**NMOCD FACILITY** Controlled Recovery Inc.

**TRUCKING COMPANY** ConocoPhillips

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory determinations. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

**AGENT** Mark Bishop

**SIGNATURE**

**NAME** MARK BISHOP

**PRINTED**

**ADDRESS** 921 W. SANGER

HOBBS, NM 88240

**DATE** 6/9/2003

**CERTIFICATE OF WASTE STATUS**  
**NON-EXEMPT WASTE MATERIAL**  
**"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

**COMPANY /GENERATOR** ConocoPhillips

**ADDRESS** 921 W. Sanger Hobbs, NM 88240

**GENERATING SITE** Hobbs Plant, Antelope Ridge Plant, Zia Plant and various associated compressor stations and facilities from Lea and Eddy Counties

**COUNTY** Lee/Eddy **STATE** NM

**TYPE OF WASTE** Engine oil filters, absorbent pads/socks Mole sieve dust filters, amine filters

**ESTIMATED VOLUME** 60 yards/year

**GENERATING PROCESS** Natural gas gathering and processing

**REMARKS** \_\_\_\_\_

**NMOCD FACILITY** Controlled Recovery Inc.

**TRUCKING COMPANY** ConocoPhillips

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory determinations. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

**AGENT** Mark Bishop  
**SIGNATURE**

**NAME** MARK BISHOP

**PRINTED**

**ADDRESS** 921 W. SANGER

HOBBS, NM 88240

**DATE** 6/9/2003

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

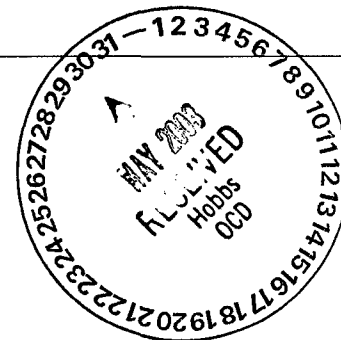
**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                         | 4. Generator Navajo Refining Company |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5. Originating Site Artesia, NM      |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter CRI                   |
| 7. Location of Material (Street Address or ULSTR), 501 East Main, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8. State New Mexico                  |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                      |

BRIEF DESCRIPTION OF MATERIAL:

RE: 05.02.03

Hydroblasting Soil near TK 433.



Estimated Volume 70 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE David Parsons TITLE: VP DATE: 05-30-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: David Parsons TELEPHONE NO: (505) 393-1079

|                                     |                                       |                     |
|-------------------------------------|---------------------------------------|---------------------|
| (This space for State Use)          |                                       |                     |
| APPROVED BY: <u>Chak Kialy</u>      | TITLE: <u>Enviro. Engr.</u>           | DATE: <u>6-2-03</u> |
| APPROVED BY: <u>Martyn J. Kelly</u> | TITLE: <u>Environmental Geologist</u> | DATE: <u>6-4-03</u> |

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Hydroblasting Soil near TK 433

ESTIMATED VOLUME: 70 yards

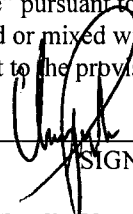
GENERATING PROCESS: Hydroblast excavation of soils for new pipe rack

REMARKS: TCLP analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: D and J Waste/ CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: 

SIGNATURE

NAME: Charlie Plymale

PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 5/29/03



6701 Aberdeen Avenue, Suite 9    Lubbock, Texas 79424    800•378•1296    806•794•1296    FAX 806•794•1298  
155 McCutcheon, Suite H    El Paso, Texas 79932    888•588•3443    915•585•3443    FAX 915•585•4944  
E-Mail: lab@traceanalysis.com

## Analytical and Quality Control Report

Charlie Plymale  
Navajo Refining  
501 E. Main  
Artesia, NM 88210

Report Date: May 19, 2003

Work Order: 3050703

Project Location:  
Project Name:  
Project Number: N/A

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description            | Matrix | Date<br>Taken | Time<br>Taken | Date<br>Received |
|--------|------------------------|--------|---------------|---------------|------------------|
| 6830   | TK 433 Hydroblast Soil | Sludge | 2003-05-06    | 13:30         | 2003-05-07       |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

## Analytical Report

### Sample: 6830 - TK 433 Hydroblast Soil

|                  |                                           |                  |
|------------------|-------------------------------------------|------------------|
| Analysis: RCI    | Analytical Method: ASTM D 5049-90/4978-95 | Prep Method: N/A |
| QC Batch: 1565   | Date Analyzed: 2003-05-14                 | Analyzed By: JH  |
| Prep Batch: 1401 | Date Prepared: 2003-05-14                 | Prepared By: JH  |
| Analysis: RCI    | Analytical Method: S 1110                 | Prep Method: N/A |
| Analysis: RCI    | Analytical Method: SW-846 Ch. 7.1         | Prep Method: N/A |

| Parameter        | Flag | RL<br>Result  | Units | Dilution | RL   |
|------------------|------|---------------|-------|----------|------|
| Reactivity       |      | non-reactive  |       | 1        | 0.00 |
| Hydrogen Sulfide |      | <10.0         | mg/Kg | 1        | 10.0 |
| Hydrogen Cyanide |      | <2.50         | mg/Kg | 1        | 2.50 |
| Corrosivity      |      | non-corrosive | mm/yr | 1        | 0.00 |
| pH               |      | 7.50          | s.u.  | 1        | 0.00 |
| Ignitability     |      | non-ignitable |       | 1        | 0.00 |

### Sample: 6830 - TK 433 Hydroblast Soil

|                              |                            |                        |
|------------------------------|----------------------------|------------------------|
| Analysis: TCLP Semivolatiles | Analytical Method: S 8270C | Prep Method: TCLP 1311 |
| QC Batch: 1648               | Date Analyzed: 2003-05-14  | Analyzed By: RC        |
| Prep Batch: 1369             | Date Prepared: 2003-05-13  | Prepared By: JH        |

| Parameter                            | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------------------------------|------|--------------|-------|----------|------|
| Pyridine                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 1,4-Dichlorobenzene (para)           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| o-Cresol                             |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| m,p-Cresol                           |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachloroethane                     |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Nitrobenzene                         |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobutadiene                  |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,6-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenol                |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dinitrotoluene                   |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4-Dichlorophenoxyacetic acid       |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Hexachlorobenzene                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| 2,4,5-Trichlorophenoxypropionic acid |      | <0.0500      | mg/L  | 0.005    | 10.0 |
| Pentachlorophenol                    |      | <0.0500      | mg/L  | 0.005    | 10.0 |

| Surrogate            | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|----------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| 2-Fluorophenol       |      | 0.0856 | mg/L  | 0.005    | 60.0            | 28                  | 2.83 - 110.33      |
| Phenol-d5            |      | 0.0379 | mg/L  | 0.005    | 60.0            | 13                  | 0 - 82.08          |
| Nitrobenzene-d5      |      | 0.258  | mg/L  | 0.005    | 60.0            | 86                  | 26.72 - 155        |
| 2-Fluorobiphenyl     |      | 0.349  | mg/L  | 0.005    | 60.0            | 116                 | 35.89 - 150.5      |
| 2,4,6-Tribromophenol |      | 0.149  | mg/L  | 0.005    | 60.0            | 50                  | 0 - 204.91         |
| Terphenyl-d14        |      | 0.263  | mg/L  | 0.005    | 60.0            | 88                  | 33.98 - 168.85     |

### Sample: 6830 - TK 433 Hydroblast Soil

|                               |                            |                        |
|-------------------------------|----------------------------|------------------------|
| Analysis: TCLP Total 8 Metals | Analytical Method: S 7470A | Prep Method: TCLP 1311 |
|-------------------------------|----------------------------|------------------------|

|                               |                            |                        |
|-------------------------------|----------------------------|------------------------|
| QC Batch: 1534                | Date Analyzed: 2003-05-12  | Analyzed By: BC        |
| Prep Batch: 1374              | Date Prepared: 2003-05-08  | Prepared By: BC        |
| Analysis: TCLP Total 8 Metals | Analytical Method: S 6010B | Prep Method: TCLP 1311 |
| QC Batch: 1581                | Date Analyzed: 2003-05-15  | Analyzed By: RR        |
| Prep Batch: 1336              | Date Prepared: 2003-05-08  | Prepared By: TP        |

| Parameter     | Flag | RL<br>Result | Units | Dilution | RL     |
|---------------|------|--------------|-------|----------|--------|
| TCLP Silver   |      | <0.125       | mg/L  | 1        | 0.125  |
| TCLP Arsenic  |      | <0.100       | mg/L  | 1        | 0.100  |
| TCLP Barium   |      | 1.19         | mg/L  | 1        | 0.100  |
| TCLP Cadmium  |      | <0.0500      | mg/L  | 1        | 0.0500 |
| TCLP Chromium |      | <0.100       | mg/L  | 1        | 0.100  |
| TCLP Mercury  |      | <0.0100      | mg/L  | 1        | 0.0100 |
| TCLP Lead     |      | <0.0370      | mg/L  | 1        | 0.0370 |
| TCLP Selenium |      | <0.500       | mg/L  | 1        | 0.500  |

**Sample: 6830 - TK 433 Hydroblast Soil**

|                          |                            |                        |
|--------------------------|----------------------------|------------------------|
| Analysis: TCLP Volatiles | Analytical Method: S 8260B | Prep Method: TCLP 1311 |
| QC Batch: 1609           | Date Analyzed: 2003-05-14  | Analyzed By: JG        |
| Prep Batch: 1439         | Date Prepared: 2003-05-14  | Prepared By: JG        |

| Parameter                  | Flag | RL<br>Result | Units | Dilution | RL      |
|----------------------------|------|--------------|-------|----------|---------|
| Vinyl Chloride             |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,1-Dichloroethene         |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 2-Butanone (MEK)           |      | <0.500       | mg/L  | 50       | 0.0100  |
| Chloroform                 |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,2-Dichloroethane (EDC)   |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Benzene                    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Carbon Tetrachloride       |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Trichloroethene (TCE)      |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Tetrachloroethene (PCE)    |      | <0.0500      | mg/L  | 50       | 0.00100 |
| Chlorobenzene              |      | <0.0500      | mg/L  | 50       | 0.00100 |
| 1,4-Dichlorobenzene (para) |      | <0.0500      | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 51.8   | mg/L  | 1        | 50.0            | 104                 | 79 - 118           |
| Toluene-d8                   |      | 53     | mg/L  | 1        | 50.0            | 106                 | 86 - 114           |
| 4-Bromofluorobenzene (4-BFB) |      | 43     | mg/L  | 1        | 50.0            | 86                  | 79 - 116           |

**Method Blank (1)**      QC Batch: 1534

| Parameter    | Flag | Result    | Units | MDL    |
|--------------|------|-----------|-------|--------|
| TCLP Mercury |      | <0.000200 | mg/L  | 0.0002 |

**Method Blank (1)**      QC Batch: 1581



| Parameter     | Flag | Result   | Units | MDL    |
|---------------|------|----------|-------|--------|
| TCLP Silver   |      | <0.00780 | mg/L  | 0.0078 |
| TCLP Arsenic  |      | <0.0590  | mg/L  | 0.059  |
| TCLP Barium   |      | <0.00340 | mg/L  | 0.0034 |
| TCLP Cadmium  |      | <0.00270 | mg/L  | 0.0027 |
| TCLP Chromium |      | <0.00660 | mg/L  | 0.0066 |
| TCLP Lead     |      | <0.0370  | mg/L  | 0.037  |
| TCLP Selenium |      | <0.100   | mg/L  | 0.1    |

Method Blank (1) QC Batch: 1609

| Parameter                  | Flag | Result   | Units | MDL      |
|----------------------------|------|----------|-------|----------|
| Vinyl Chloride             |      | <0.00845 | mg/L  | 0.000169 |
| 1,1-Dichloroethene         |      | <0.00790 | mg/L  | 0.000158 |
| 2-Butanone (MEK)           |      | <0.0185  | mg/L  | 0.00037  |
| Chloroform                 |      | <0.00480 | mg/L  | 9.6e-05  |
| 1,2-Dichloroethane (EDC)   |      | <0.00470 | mg/L  | 9.4e-05  |
| Benzene                    |      | <0.00520 | mg/L  | 0.000104 |
| Carbon Tetrachloride       |      | <0.00390 | mg/L  | 7.8e-05  |
| Trichloroethene (TCE)      |      | <0.00585 | mg/L  | 0.000117 |
| Tetrachloroethene (PCE)    |      | <0.0205  | mg/L  | 0.00041  |
| Chlorobenzene              |      | <0.00300 | mg/L  | 6e-05    |
| 1,4-Dichlorobenzene (para) |      | <0.00425 | mg/L  | 8.5e-05  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 50.8   | mg/L  | 1        | 50.0         | 102              | 79 - 118        |
| Toluene-d8                   |      | 52.6   | mg/L  | 1        | 50.0         | 105              | 86 - 114        |
| 4-Bromofluorobenzene (4-BFB) |      | 45.5   | mg/L  | 1        | 50.0         | 91               | 79 - 116        |

Method Blank (1) QC Batch: 1648

| Parameter                            | Flag | Result      | Units | MDL     |
|--------------------------------------|------|-------------|-------|---------|
| Pyridine                             |      | <0.0000120  | mg/L  | 0.00241 |
| 1,4-Dichlorobenzene (para)           |      | <0.00000965 | mg/L  | 0.00193 |
| o-Cresol                             |      | <0.00000730 | mg/L  | 0.00146 |
| m,p-Cresol                           |      | <0.00000595 | mg/L  | 0.00119 |
| Hexachloroethane                     |      | <0.00000955 | mg/L  | 0.00191 |
| Nitrobenzene                         |      | 0.000700    | mg/L  | 0.0015  |
| Hexachlorobutadiene                  |      | <0.00000785 | mg/L  | 0.00157 |
| 2,4,6-Trichlorophenol                |      | <0.00000820 | mg/L  | 0.00164 |
| 2,4,5-Trichlorophenol                |      | <0.00000975 | mg/L  | 0.00195 |
| 2,4-Dinitrotoluene                   |      | <0.0000104  | mg/L  | 0.00209 |
| 2,4-Dichlorophenoxyacetic acid       |      | 0.00410     | mg/L  |         |
| Hexachlorobenzene                    |      | <0.0000815  | mg/L  | 0.0163  |
| 2,4,5-Trichlorophenoxypropionic acid |      | 0.00        | mg/L  |         |
| Pentachlorophenol                    |      | <0.0000152  | mg/L  | 0.00304 |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 2-Fluorophenol       |      | 0.068  | mg/L  | 0.005    | 60.0         | 23               | 2.83 - 110.33   |
| Phenol-d5            |      | 0.0462 | mg/L  | 0.005    | 60.0         | 15               | 0 - 82.08       |
| Nitrobenzene-d5      |      | 0.179  | mg/L  | 0.005    | 60.0         | 60               | 26.72 - 155     |
| 2-Fluorobiphenyl     |      | 0.297  | mg/L  | 0.005    | 60.0         | 99               | 35.89 - 150.5   |
| 2,4,6-Tribromophenol |      | 0.0962 | mg/L  | 0.005    | 60.0         | 32               | 0 - 204.91      |
| Terphenyl-d14        |      | 0.258  | mg/L  | 0.005    | 60.0         | 86               | 33.98 - 168.85  |

**Duplicate (2)**      QC Batch: 1565

| Param            | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------|------------------|---------------|-------|----------|-----|-----------|
| Reactivity       | non-reactive     | non-reactive  |       | 1        | 0   |           |
| Reactivity       | non-reactive     | non-reactive  |       | 1        | 0   |           |
| Hydrogen Sulfide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Hydrogen Sulfide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Hydrogen Cyanide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Hydrogen Cyanide | 0.00             | 0.00          | mg/Kg | 1        | 0   | 20        |
| Corrosivity      | non-corrosive    | non-corrosive | mm/yr | 1        | 0   | 20        |
| Corrosivity      | non-corrosive    | non-corrosive | mm/yr | 1        | 0   | 20        |
| pH               | 6.20             | 6.20          | s.u.  | 1        | 0   | 20        |
| pH               | 6.20             | 8.12          | s.u.  | 1        | 0   | 20        |
| Ignitability     | non-ignitable    | non-ignitable |       | 1        | 0   | 20        |
| Ignitability     | non-ignitable    | non-ignitable |       | 1        | 0   | 20        |

**Laboratory Control Spike (LCS-1)**      QC Batch: 1534

| Param        | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Mercury | 0.0529     | 0.0479      | mg/L  | 1    | 0.0500       | <0.000200     | 106  | 10  | 80 - 120   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**      QC Batch: 1581

| Param         | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Silver   | 1.40       | 1.35        | mg/L  | 1    | 1.25         | <0.00780      | 112  | 4   | 75 - 125   | 20        |
| TCLP Arsenic  | 4.86       | 4.68        | mg/L  | 1    | 5.00         | <0.0590       | 97   | 4   | 75 - 125   | 20        |
| TCLP Barium   | 11.2       | 11.1        | mg/L  | 1    | 10.0         | <0.00340      | 112  | 1   | 75 - 125   | 20        |
| TCLP Cadmium  | 2.68       | 2.67        | mg/L  | 1    | 2.50         | <0.00270      | 107  | 0   | 75 - 125   | 20        |
| TCLP Chromium | 1.09       | 1.08        | mg/L  | 1    | 1.00         | <0.00660      | 109  | 1   | 75 - 125   | 20        |
| TCLP Lead     | 4.90       | 5.39        | mg/L  | 1    | 5.00         | <0.0370       | 98   | 10  | 75 - 125   | 20        |
| TCLP Selenium | 4.46       | 4.15        | mg/L  | 1    | 5.00         | <0.100        | 89   | 7   | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**      QC Batch: 1609

| Param                      | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Vinyl Chloride             | 4.75       | 4.86        | mg/L  | 50   | 0.100        | <0.00845      | 95   | 2   | 55 - 131   | 20        |
| 1,1-Dichloroethene         | 5.12       | 5.20        | mg/L  | 50   | 0.100        | <0.00790      | 102  | 2   | 81 - 119   | 20        |
| 2-Butanone (MEK)           | 4.04       | 4.22        | mg/L  | 50   | 0.100        | <0.0185       | 81   | 4   | 41 - 157   | 20        |
| Chloroform                 | 4.69       | 4.77        | mg/L  | 50   | 0.100        | <0.00480      | 94   | 2   | 79 - 126   | 20        |
| 1,2-Dichloroethane (EDC)   | 4.70       | 4.86        | mg/L  | 50   | 0.100        | <0.00470      | 94   | 3   | 72 - 131   | 20        |
| Benzene                    | 5.04       | 5.10        | mg/L  | 50   | 0.100        | <0.00520      | 101  | 1   | 87 - 118   | 20        |
| Carbon Tetrachloride       | 4.59       | 4.49        | mg/L  | 50   | 0.100        | <0.00390      | 92   | 2   | 43 - 162   | 20        |
| Trichloroethene (TCE)      | 4.76       | 4.81        | mg/L  | 50   | 0.100        | <0.00585      | 95   | 1   | 78 - 110   | 20        |
| Tetrachloroethene (PCE)    | 3.44       | 3.45        | mg/L  | 50   | 0.100        | <0.0205       | 69   | 0   | 48 - 81    | 20        |
| Chlorobenzene              | 4.92       | 4.98        | mg/L  | 50   | 0.100        | <0.00300      | 98   | 1   | 90 - 111   | 20        |
| 1,4-Dichlorobenzene (para) | 5.10       | 5.11        | mg/L  | 50   | 0.100        | <0.00425      | 102  | 0   | 81 - 115   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Dibromofluoromethane         | 50.8       | 51.4        | mg/L  | 1    | 50.0         | 102      | 103       | 79 - 118   |
| Toluene-d8                   | 51.4       | 51.9        | mg/L  | 1    | 50.0         | 103      | 104       | 86 - 114   |
| 4-Bromofluorobenzene (4-BFB) | 46.9       | 46.8        | mg/L  | 1    | 50.0         | 94       | 94        | 79 - 116   |

Laboratory Control Spike (LCS-1) QC Batch: 1648

| Param                                | LCS Result        | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit     | RPD Limit |
|--------------------------------------|-------------------|-------------|-------|------|--------------|---------------|------|-----|----------------|-----------|
| Pyridine                             | 14.8              | 15.4        | mg/L  | 1    | 60.0         | <0.00241      | 25   | 4   | 12.6 - 50.02   | 20        |
| 1,4-Dichlorobenzene (para)           | 48.3              | 48.9        | mg/L  | 1    | 60.0         | <0.00193      | 80   | 1   | 13.67 - 139.56 | 20        |
| o-Cresol                             | 56.0              | 53.0        | mg/L  | 1    | 60.0         | <0.00146      | 93   | 6   | 18.58 - 114.05 | 20        |
| m,p-Cresol                           | 63.4              | 58.7        | mg/L  | 1    | 60.0         | <0.00119      | 106  | 8   | 10.62 - 252.59 | 20        |
| Hexachloroethane                     | 54.0              | 50.2        | mg/L  | 1    | 60.0         | <0.00191      | 90   | 7   | 25.17 - 146.78 | 20        |
| Nitrobenzene                         | 35.1              | 34.3        | mg/L  | 1    | 60.0         | <0.00150      | 58   | 2   | 26.78 - 144.08 | 20        |
| Hexachlorobutadiene                  | 45.1              | 43.6        | mg/L  | 1    | 60.0         | <0.00157      | 75   | 3   | 0 - 171.61     | 20        |
| 2,4,6-Trichlorophenol                | 61.8              | 65.5        | mg/L  | 1    | 60.0         | <0.00164      | 103  | 6   | 19.23 - 144.93 | 20        |
| 2,4,5-Trichlorophenol                | 69.9              | 74.5        | mg/L  | 1    | 60.0         | <0.00195      | 116  | 6   | 40.38 - 144.67 | 20        |
| 2,4-Dinitrotoluene                   | <sup>12</sup> 120 | 112         | mg/L  | 1    | 60.0         | <0.00209      | 200  | 7   | 18.51 - 158.26 | 20        |
| 2,4-Dichlorophenoxyacetic acid       | 27.9              | 25.9        | mg/L  | 1    | 60.0         | 0             | 46   | 7   | 0 - 165.81     | 20        |
| Hexachlorobenzene                    | 78.1              | 77.4        | mg/L  | 1    | 60.0         | <0.0163       | 130  | 1   | 2.35 - 182.77  | 20        |
| 2,4,5-Trichlorophenoxypropionic acid | 20.0              | 21.6        | mg/L  | 1    | 60.0         | 0             | 33   | 8   | 22.1 - 144.74  | 20        |
| Pentachlorophenol                    | 69.4              | 70.0        | mg/L  | 1    | 60.0         | <0.00304      | 116  | 1   | 0 - 156.72     | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit     |
|----------------------|------------|-------------|-------|------|--------------|----------|-----------|----------------|
| 2-Fluorophenol       | 10.0       | 17.4        | mg/L  | 1    | 60.0         | 17       | 29        | 2.83 - 110.33  |
| Phenol-d5            | 9.56       | 13.1        | mg/L  | 1    | 60.0         | 16       | 22        | 0 - 82.08      |
| Nitrobenzene-d5      | 32.4       | 32.3        | mg/L  | 1    | 60.0         | 54       | 54        | 26.72 - 155    |
| 2-Fluorobiphenyl     | 57.0       | 55.8        | mg/L  | 1    | 60.0         | 95       | 93        | 35.89 - 150.5  |
| 2,4,6-Tribromophenol | 60.7       | 57.7        | mg/L  | 1    | 60.0         | 101      | 96        | 0 - 204.91     |
| Terphenyl-d14        | 68.2       | 70.1        | mg/L  | 1    | 60.0         | 114      | 117       | 33.98 - 168.85 |

Matrix Spike (MS-2) QC Batch: 1534

<sup>1</sup>Sample above percent recovery limits. Spike amount bias high. Sample is non detect.

<sup>2</sup>Sample above percent recovery limits. Spike amount bias high. Sample is non detect.

| Param        | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Mercury | 0.0517    | 0.0535     | mg/L  | 1    | 0.0500       | <0.000200     | 103  | 3   | 80 - 120   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** QC Batch: 1581

| Param         | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| TCLP Silver   | 1.37      | 1.36       | mg/L  | 1    | 1.25         | <0.00780      | 110  | 1   | 75 - 125   | 20        |
| TCLP Arsenic  | 4.97      | 4.67       | mg/L  | 1    | 5.00         | <0.0590       | 99   | 6   | 75 - 125   | 20        |
| TCLP Barium   | 12.1      | 12.0       | mg/L  | 1    | 10.0         | 1.19          | 109  | 1   | 75 - 125   | 20        |
| TCLP Cadmium  | 2.58      | 2.53       | mg/L  | 1    | 2.50         | <0.00270      | 103  | 2   | 75 - 125   | 20        |
| TCLP Chromium | 1.08      | 1.01       | mg/L  | 1    | 1.00         | <0.00660      | 108  | 7   | 75 - 125   | 20        |
| TCLP Lead     | 5.10      | 5.33       | mg/L  | 1    | 5.00         | <0.0370       | 102  | 4   | 75 - 125   | 20        |
| TCLP Selenium | 3.85      | 3.88       | mg/L  | 1    | 5.00         | <0.100        | 77   | 1   | 75 - 125   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** QC Batch: 1609

| Param                      | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Vinyl Chloride             | 5.17      | 5.21       | mg/L  | 50   | 0.100        | <0.00845      | 103  | 1   | 58 - 136   | 20        |
| 1,1-Dichloroethene         | 5.31      | 5.20       | mg/L  | 50   | 0.100        | <0.00790      | 106  | 2   | 81 - 125   | 20        |
| 2-Butanone (MEK)           | 3.49      | 3.34       | mg/L  | 50   | 0.100        | <0.0185       | 70   | 4   | 33 - 122   | 20        |
| Chloroform                 | 4.85      | 4.75       | mg/L  | 50   | 0.100        | <0.00480      | 97   | 2   | 81 - 130   | 20        |
| 1,2-Dichloroethane (EDC)   | 5.07      | 5.00       | mg/L  | 50   | 0.100        | <0.00470      | 101  | 1   | 76 - 137   | 20        |
| Benzene                    | 5.15      | 5.11       | mg/L  | 50   | 0.100        | <0.00520      | 103  | 1   | 88 - 121   | 20        |
| Carbon Tetrachloride       | 4.27      | 4.20       | mg/L  | 50   | 0.100        | <0.00390      | 85   | 2   | 56 - 156   | 20        |
| Trichloroethene (TCE)      | 4.81      | 4.78       | mg/L  | 50   | 0.100        | <0.00585      | 96   | 1   | 77 - 111   | 20        |
| Tetrachloroethene (PCE)    | 3.50      | 3.50       | mg/L  | 50   | 0.100        | <0.0205       | 70   | 0   | 48 - 80    | 20        |
| Chlorobenzene              | 4.94      | 4.88       | mg/L  | 50   | 0.100        | <0.00300      | 99   | 1   | 89 - 113   | 20        |
| 1,4-Dichlorobenzene (para) | 5.09      | 5.05       | mg/L  | 50   | 0.100        | <0.00425      | 102  | 1   | 82 - 113   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Dibromofluoromethane         | 52.0      | 51.8       | mg/L  | 1    | 50           | 104     | 104      | 79 - 118   |
| Toluene-d8                   | 52.2      | 52.2       | mg/L  | 1    | 50           | 104     | 104      | 86 - 114   |
| 4-Bromofluorobenzene (4-BFB) | 43.5      | 43.9       | mg/L  | 1    | 50           | 87      | 88       | 79 - 116   |

**Matrix Spike (MS-1)** QC Batch: 1648

| Param                      | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit     | RPD Limit |
|----------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|----------------|-----------|
| Pyridine                   | 11.6      | 11.9       | mg/L  | 1    | 60.0         | <0.00241      | 19   | 2   | 12.6 - 50.02   | 20        |
| 1,4-Dichlorobenzene (para) | 55.5      | 56.5       | mg/L  | 1    | 60.0         | <0.00193      | 92   | 2   | 13.67 - 139.56 | 20        |
| o-Cresol                   | 33.4      | 35.5       | mg/L  | 1    | 60.0         | <0.00146      | 56   | 6   | 18.58 - 114.05 | 20        |
| m,p-Cresol                 | 78.7      | 85.8       | mg/L  | 1    | 60.0         | <0.00119      | 131  | 9   | 10.62 - 252.59 | 20        |
| Hexachloroethane           | 58.0      | 58.9       | mg/L  | 1    | 60.0         | <0.00191      | 97   | 2   | 25.17 - 146.78 | 20        |
| Nitrobenzene               | 55.0      | 55.0       | mg/L  | 1    | 60.0         | <0.00150      | 92   | 0   | 26.78 - 144.08 | 20        |

continued ...

matrix spikes continued ...

| Param                                              | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit     | RPD Limit |
|----------------------------------------------------|-----------|------------|-------|------|--------------|---------------|------|-----|----------------|-----------|
| Hexachlorobutadiene                                | 61.0      | 58.7       | mg/L  | 1    | 60.0         | <0.00157      | 102  | 4   | 0 - 171.61     | 20        |
| 2,4,6-Trichlorophenol                              | 49.8      | 50.2       | mg/L  | 1    | 60.0         | <0.00164      | 83   | 1   | 19.23 - 144.93 | 20        |
| 2,4,5-Trichlorophenol                              | 63.1      | 64.4       | mg/L  | 1    | 60.0         | <0.00195      | 105  | 2   | 40.38 - 144.67 | 20        |
| 2,4-Dinitrotoluene                                 | 73.5      | 75.7       | mg/L  | 1    | 60.0         | <0.00209      | 122  | 3   | 18.51 - 158.26 | 20        |
| 2,4-Dichlorophenoxyacetic acid                     | 9.27      | 9.22       | mg/L  | 1    | 60.0         | 0             | 15   | 0   | 0 - 165.81     | 20        |
| Hexachlorobenzene                                  | 89.8      | 90.8       | mg/L  | 1    | 60.0         | <0.0163       | 150  | 1   | 2.35 - 182.77  | 20        |
| 2,4,5-Trichlorophenoxypropionic acid <sup>34</sup> | 10.5      | 9.25       | mg/L  | 1    | 60.0         | 0             | 18   | 13  | 22.1 - 144.74  | 20        |
| Pentachlorophenol                                  | 51.0      | 50.3       | mg/L  | 1    | 60.0         | <0.00304      | 85   | 1   | 0 - 156.72     | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit     |
|----------------------|-----------|------------|-------|------|--------------|---------|----------|----------------|
| 2-Fluorophenol       | 13.0      | 13.7       | mg/L  | 1    | 60           | 22      | 23       | 2.83 - 110.33  |
| Phenol-d5            | 7.01      | 7.57       | mg/L  | 1    | 60           | 12      | 13       | 0 - 82.08      |
| Nitrobenzene-d5      | 49.0      | 48.3       | mg/L  | 1    | 60           | 82      | 80       | 26.72 - 155    |
| 2-Fluorobiphenyl     | 74.7      | 76.8       | mg/L  | 1    | 60           | 124     | 128      | 35.89 - 150.5  |
| 2,4,6-Tribromophenol | 37.2      | 39.3       | mg/L  | 1    | 60           | 62      | 66       | 0 - 204.91     |
| Terphenyl-d14        | 72.6      | 71.9       | mg/L  | 1    | 60           | 121     | 120      | 33.98 - 168.85 |

Standard (ICV-1) QC Batch: 1534

| Param        | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| TCLP Mercury |      | mg/L  | 0.00500         | 0.00490          | 98                    | 90 - 110                | 2003-05-12    |

Standard (CCV-1) QC Batch: 1534

| Param        | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| TCLP Mercury |      | mg/L  | 0.00500         | 0.00549          | 110                   | 80 - 120                | 2003-05-12    |

Standard (ICV-1) QC Batch: 1581

| Param         | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| TCLP Silver   |      | mg/L  | 0.250           | 0.251            | 100                   | 90 - 110                | 2003-05-15    |
| TCLP Arsenic  |      | mg/L  | 1.00            | 1.04             | 104                   | 90 - 110                | 2003-05-15    |
| TCLP Barium   |      | mg/L  | 2.00            | 2.06             | 103                   | 90 - 110                | 2003-05-15    |
| TCLP Cadmium  |      | mg/L  | 0.500           | 0.505            | 101                   | 90 - 110                | 2003-05-15    |
| TCLP Chromium |      | mg/L  | 0.200           | 0.202            | 101                   | 90 - 110                | 2003-05-15    |
| TCLP Lead     |      | mg/L  | 1.00            | 0.997            | 100                   | 90 - 110                | 2003-05-15    |
| TCLP Selenium |      | mg/L  | 1.00            | 0.960            | 96                    | 90 - 110                | 2003-05-15    |

Standard (CCV-1) QC Batch: 1581

<sup>3</sup>Sample spike recovery out of limits due to sample matrix.

<sup>4</sup>Sample spike recovery out of limits due to sample matrix.

| Param         | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TCLP Silver   |      | mg/L  | 0.250                 | 0.246                  | 98                          | 90 - 110                      | 2003-05-15       |
| TCLP Arsenic  |      | mg/L  | 1.00                  | 0.984                  | 98                          | 90 - 110                      | 2003-05-15       |
| TCLP Barium   |      | mg/L  | 2.00                  | 2.04                   | 102                         | 90 - 110                      | 2003-05-15       |
| TCLP Cadmium  |      | mg/L  | 0.500                 | 0.501                  | 100                         | 90 - 110                      | 2003-05-15       |
| TCLP Chromium |      | mg/L  | 0.200                 | 0.202                  | 101                         | 90 - 110                      | 2003-05-15       |
| TCLP Lead     |      | mg/L  | 1.00                  | 0.981                  | 98                          | 90 - 110                      | 2003-05-15       |
| TCLP Selenium |      | mg/L  | 1.00                  | 0.973                  | 97                          | 90 - 110                      | 2003-05-15       |

Standard (CCV-1) QC Batch: 1609

| Param                      | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Vinyl Chloride             |      | mg/L  | 50.0                  | 50.0                   | 100                         | 80 - 120                      | 2003-05-14       |
| 1,1-Dichloroethene         |      | mg/L  | 50.0                  | 49.0                   | 98                          | 80 - 120                      | 2003-05-14       |
| 2-Butanone (MEK)           |      | mg/L  | 50.0                  | 48.0                   | 96                          | 80 - 120                      | 2003-05-14       |
| Chloroform                 |      | mg/L  | 50.0                  | 47.0                   | 94                          | 80 - 120                      | 2003-05-14       |
| 1,2-Dichloroethane (EDC)   |      | mg/L  | 50.0                  | 49.0                   | 98                          | 80 - 120                      | 2003-05-14       |
| Benzene                    |      | mg/L  | 50.0                  | 50.0                   | 100                         | 80 - 120                      | 2003-05-14       |
| Carbon Tetrachloride       |      | mg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2003-05-14       |
| Trichloroethene (TCE)      |      | mg/L  | 50.0                  | 50.0                   | 100                         | 80 - 120                      | 2003-05-14       |
| Tetrachloroethene (PCE)    | 5    | mg/L  | 50.0                  | 38.0                   | 76                          | 80 - 120                      | 2003-05-14       |
| Chlorobenzene              |      | mg/L  | 50.0                  | 51.0                   | 102                         | 80 - 120                      | 2003-05-14       |
| 1,4-Dichlorobenzene (para) |      | mg/L  | 50.0                  | 50.0                   | 100                         | 80 - 120                      | 2003-05-14       |

Standard (CCV-1) QC Batch: 1648

| Param                                | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Pyridine                             |      | mg/L  | 60.0                  | 55.2                   | 92                          | 80 - 120                      | 2003-05-14       |
| 1,4-Dichlorobenzene (para)           |      | mg/L  | 60.0                  | 60.8                   | 101                         | 80 - 120                      | 2003-05-14       |
| o-Cresol                             |      | mg/L  | 60.0                  | 64.7                   | 108                         | 80 - 120                      | 2003-05-14       |
| m,p-Cresol                           |      | mg/L  | 60.0                  | 71.1                   | 118                         | 80 - 120                      | 2003-05-14       |
| Hexachloroethane                     |      | mg/L  | 60.0                  | 60.5                   | 101                         | 80 - 120                      | 2003-05-14       |
| Nitrobenzene                         |      | mg/L  | 60.0                  | 60.3                   | 100                         | 80 - 120                      | 2003-05-14       |
| Hexachlorobutadiene                  |      | mg/L  | 60.0                  | 64.0                   | 107                         | 80 - 120                      | 2003-05-14       |
| 2,4,6-Trichlorophenol                |      | mg/L  | 60.0                  | 70.5                   | 118                         | 80 - 120                      | 2003-05-14       |
| 2,4,5-Trichlorophenol                |      | mg/L  | 60.0                  | 67.7                   | 113                         | 80 - 120                      | 2003-05-14       |
| 2,4-Dinitrotoluene                   |      | mg/L  | 60.0                  | 69.2                   | 115                         | 80 - 120                      | 2003-05-14       |
| 2,4-Dichlorophenoxyacetic acid       |      | mg/L  | 60.0                  | 66.5                   | 111                         | 80 - 120                      | 2003-05-14       |
| Hexachlorobenzene                    |      | mg/L  | 60.0                  | 71.2                   | 119                         | 80 - 120                      | 2003-05-14       |
| 2,4,5-Trichlorophenoxypropionic acid |      | mg/L  | 60.0                  | 59.2                   | 99                          | 80 - 120                      | 2003-05-14       |
| Pentachlorophenol                    |      | mg/L  | 60.0                  | 71.8                   | 120                         | 80 - 120                      | 2003-05-14       |

| Surrogate       | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|-----------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| 2-Fluorophenol  |      | 50     | mg/L  | 1        | 60.0            | 83                  | 80 - 120          |
| Phenol-d5       |      | 53.1   | mg/L  | 1        | 60.0            | 88                  | 80 - 120          |
| Nitrobenzene-d5 |      | 50.4   | mg/L  | 1        | 60.0            | 84                  | 80 - 120          |

continued ...

<sup>5</sup>recovery out of control. Average of all ccv analytes=96 which is within acceptable limits showing analysis to be in control.

Report Date: May 19, 2003  
N/A

Work Order: 3050703

Page Number: 10 of 10

*standard continued ...*

| Surrogate            | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|----------------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| 2-Fluorobiphenyl     |      | 71.1   | mg/L  | 1        | 60.0            | 118                 | 80 - 120          |
| 2,4,6-Tribromophenol |      | 66     | mg/L  | 1        | 60.0            | 110                 | 80 - 120          |
| Terphenyl-d14        |      | 67.2   | mg/L  | 1        | 60.0            | 112                 | 80 - 120          |

**155 McCutcheon, Suite H**  
**El Paso, Texas 79932**  
**Tel (915) 585-3443**  
**Fax (915) 585-4944**  
**1 (888) 588-3443**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3050705

505-748-3311

Fax #:

505-746-5421

Charlotte Pymale

**Invoice to:**  
**(If different from above)**

**Project Name:**

**Sampler Signature:**

| LAB #<br>(LAB USE ONLY) | FIELD CODE                  | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     | DATE   | SAMPLING TIME |
|-------------------------|-----------------------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|--------|---------------|
|                         |                             |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE |        |               |
| 11827                   | TK 836 ABT Inlet            | 1            | 1L            | X      |      |     |        |                     | X                |                                |      | X   | 5/6/03 | 830           |
|                         | TK 836 ABT Inlet            | 1            | 1L            | X      |      |     |        |                     |                  |                                |      | X   | 5/6/03 | 830           |
|                         | TK 836 ABT Inlet            | 1            | 1500ml        | X      |      |     |        |                     |                  |                                | X    |     | 5/6/03 | 830           |
| 11828                   | Blast Sand TK 411           | 1            | 1L            |        | X    |     |        |                     |                  |                                |      | X   | 5/6/03 | 1400          |
| 11829                   | N.P.R.D. Line Cooling Tower | 1            | 1L            | X      |      |     |        |                     |                  |                                |      | X   | 5/6/03 | 920           |
| 11830                   | TK 433 Hydroblast soil      | 1            | 1L            |        |      |     |        |                     |                  |                                |      | X   | 5/6/03 | 1330          |

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by:

|       |       |
|-------|-------|
| Date: | Time: |
|-------|-------|

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by:

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received at Laboratory by:

Date: \_\_\_\_\_ Time: \_\_\_\_\_

**LAB USE ONLY**

Intact  
Y / N

Headspace : Y - / N

Temp //

Temp 11 / On-in Review

REMARKS:

Total Cr verbal 5-13-03

5/20/90

☐ Check If Special Reporting Limits Are Needed

Submission of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY



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

Energy Minerals and Natural Resources

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

Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Navajo Refining                  |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5. Originating Site Pecos Station, Eddy Co NM |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6. Transporter I & W                          |
| 7. Location of Material (Street Address or ULSTR) Pecos Station, Eddy Co NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8. State New Mexico                           |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                               |

BRIEF DESCRIPTION OF MATERIAL:

RE: 01-06-03

Crude Oil Spill. This waste stream was prior approved 06-14-2000.

Attached is Non-exempt Certificate of waste status, letter from Roger Anderson dated 06-02-2000 in reference to crude analysis.

Estimated Volume 200 yards cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_cy

SIGNATURE Becky Strickland TITLE: Bookkeeper DATE: 1-29-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Becky Strickland TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: Matthew J. Smith TITLE: Environmental Geology DATE: 2-17-03

Jan 29 03 09:18a

p.2

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Navajo Refining CoADDRESS PO Box 159GENERATING SITE Pecos StaCOUNTY Eddy STATE NMTYPE OF WASTE Oil Contaminated SoilESTIMATED VOLUME 72 YardsGENERATING PROCESS Crude Oil Spill

REMARKS \_\_\_\_\_

NMOCD FACILITY CRITRUCKING COMPANY I & W

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Gerald E Price

SIGNATURE

NAME Gerald E Price

PRINTED

ADDRESS PO Box 159Hatch NMDATE 1-29-03

Jan 29 03 09:18a

P.2

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Navajo Refining Co  
ADDRESS PO Box 159  
GENERATING SITE Pecos Sta  
COUNTY Eddy STATE NM  
TYPE OF WASTE Oil Contaminated Soil  
ESTIMATED VOLUME 72 Yards  
GENERATING PROCESS Crude Oil Spill

REMARKS \_\_\_\_\_  
NMOCD FACILITY CRI  
TRUCKING COMPANY I & W

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Gerald E Price  
SIGNATURE  
NAME Gerald E Price  
PRINTED  
ADDRESS PO Box 159  
Hatch NM  
DATE 1-29-03

From: Anderson, Roger <RCANDERSON@state.nm.us>  
To: 'Darrell Moore' <darrell@navajo-refining.com>  
Date: Friday, June 02, 2000 10:33 AM  
Subject: RE: Letter

---

June 2, 2000

Mr. Darrell Moore  
Navajo Refining Company  
P.O. Box 159  
Artesia, New Mexico 88211-0159

RE: CRUDE OIL TRUCKING SPILLS

Dear Mr. Moore:

The New Mexico Oil Conservation Division (OCD) has reviewed Navajo Refining Company's (Navajo) January 26, 2000 correspondence which requests that they be allowed to use the analyses submitted previously, the OCD approval dated May 9, 1996 and a statement of process knowledge for determining the soils to be RCRA non-hazardous during future crude oil trucking spill remediations. These analyses are to be used in lieu of individual sampling of each spill event.

The above referenced request is approved with the following conditions:

1. The above representative analyses can be used in lieu of individual sampling of each spill event until further notice.
2. Navajo will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.
3. Navajo will notify the OCD within 24 hours of any system changes which could potentially alter the composition of any spilled crude such that RCRA hazardous waste characteristics in the spill area could be exceeded.

Please be advised that OCD approval does not relieve Navajo of liability should these types of leaks and spills result in actual contamination of surface waters, ground waters or the environment. In addition, OCD approval does not relieve Navajo of responsibility for compliance with any other federal, state or local laws and/or regulations. If you have questions please contact me at (505) 827-7152.

Sincerely,

/s/

Roger G. Anderson  
Environmental Bureau ef

> \_\_\_\_\_  
> From: Darrell Moore[SMTP:darrell@navajo-refining.com].  
> Reply To: Darrell Moore  
> Sent: Friday, June 02, 2000 10:18 AM

6/6/00

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED  
FEB 03 2003  
Environmental Bureau  
Oil Conservation Division  
Form C-138  
Revised March 17, 1999  
Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                             | 4. Generator NAVAJO REFINING COMPANY                                      |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5. Originating Site EL PASO TERMINAL<br>1000 East Side Drive, El Paso, TX |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6. Transporter CRI                                                        |
| 7. Location of Material (Street Address or ULSTR) El Paso Terminal<br>1000 East Side Drive, El Paso TX                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8. State New Mexico                                                       |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved<br><br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                                           |

BRIEF DESCRIPTION OF MATERIAL: RE: 01-03-03

Concrete, trash, insulation, Styrofoam from El Paso Terminal.

This material is basic trash and debris from normal operations and used to be accepted at local landfills.

Estimated Volume 30 yards cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Becky Strickland TITLE: Bookkeeper DATE: 1-24-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Becky Strickland TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
APPROVED BY: Monty J. Gilly TITLE: Environmental Geologist DATE: 2/5/03

1350520

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company (El Paso Terminal)

ADDRESS: 1000 East Side Drive

GENERATING SITE: Navajo Refining Company (El Paso Terminal)

COUNTY: El Paso

STATE: TX

TYPE OF WASTE: Trash/Debris

ESTIMATED VOLUME: 30 yards

GENERATING PROCESS: Concrete, trash, insulation, Styrofoam from El Paso Terminal

REMARKS: This material is basic trash and debris from normal operations.

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Controlled Recovery Incorporated

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: [Signature]  
SIGNATURE

NAME: Charlie Plymale  
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 10/2/02

P.O. Box 388  
Hobbs, NM 88241-0388  
Phone: (505) 393-1079  
Fax: (505) 393-3615

Controlled Recovery, Inc.

# Fax

To: MARTYNE

From: BECKY STRICKLAND

Fax: 505-476-3462

Date: 2-4-03

Phone:

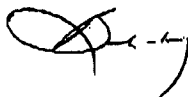
Pages: 2 INC COVER

Re:

☐ Urgent    ☐ For Review    ☐ Please Comment    ☐ Please Reply    ☐ Please Recycle

•Comments: MARTYNE, attached is a copy of the certificate of waste status for the C-138 we spoke about. I am sorry it took so long to get back with you. If you need anything further please let me know.

Thanks for your help,







# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**

Governor

**Jennifer A. Salisbury**

Cabinet Secretary

May 10, 2001

**Lori Wrotenbery**

Director

**Oil Conservation Division**

**CERTIFIED MAIL**

**RETURN RECEIPT NO. 7099-3220-0000-5051-2337**

Mr. Ken Marsh  
Controlled Recovery, Inc.  
P.O. Box 388  
Hobbs, NM 88241-0388

**RE: Controlled Recovery, Inc. Permit NM-01-0006  
S/2 N/2 and the N/2 S/2 Section 27, Township 20 South, Range 32 East, NMPM  
Lea County, New Mexico**

Dear Mr. Marsh:

The New Mexico Oil Conservation Division (OCD) has received the Controlled Recovery Inc's (CRI) "Request for Approval to Accept Solid Waste" Form C-138, CRI tracking No. 04-004, regarding oilfield solid waste containing mud sacks, non-hazardous and household trash. The OCD hereby approves that this waste stream may be disposed of at CRI pursuant to Permit NM-01-0006 with the following permit condition:

- (a) Any trash accepted into the facility containing paper, paper bags or other trash that has the potential for blowing away or being transported by other vectors must be covered with soil upon the day of delivery and disposal into the solid waste pit.

Please be advised that approval to accept these wastes does not relieve CRI of liability should your operation result in pollution of surface water, ground water, or the environment. In addition, OCD approval does not relieve CRI of responsibility for compliance with other federal, state or local laws and/or regulations.

If you have any questions please do not hesitate to contact me at (505) 476-3490.

Sincerely,

Roger C. Anderson  
Environmental Bureau Chief

RCA/mjk

xc with attachments:  
Hobbs OCD Office

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED

MAY 12 2003

Environmental Bureau  
Oil Conservation Division

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

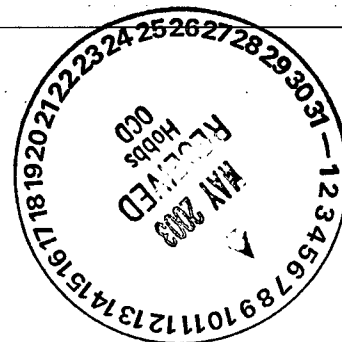
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Halliburton        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5. Originating Site Artesia, NM |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6. Transporter CRI              |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8. State New Mexico             |
| 7. Location of Material (Street Address or ULSTR), 2311 S First, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                 |

BRIEF DESCRIPTION OF MATERIAL:

RE: 05.01.03

Sodium Silicate Residue.



Estimated Volume 6 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE [Signature] TITLE: Rep DATE: 05-07-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Lary Parker TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY [Signature] TITLE: ENVIRO ENGR DATE: 5/8/03  
APPROVED BY [Signature] TITLE: Environmental Geologist DATE: 5/12/03

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

**COMPANY/GENERATOR:** Halliburton Energy Services

**ADDRESS:** 5801 Lovington Hwy, Hobbs NM 88240

**GENERATING SITE:** Halliburton Energy Services, 2311 So. First, Artesia, NM

**COUNTY:** Eddie

**STATE:** New Mexico

**TYPE OF WASTE:** Solid/Dried out Flochek (Sodium Silicate)

**ESTIMATED VOLUME:** ) 4-6 yds

**GENERATING PROCESS:** Discontinued use of storage tank, residue sodium silicate dried out into a solid.

**REMARKS:**

**NMOCD FACILITY:** CRI

**TRUCKING COMPANY:** CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection agency's EPA July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant of the provisions of 40 CFR Part 261 to verify the nature as Non-Hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subpart C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613>

**AGENT:** Stephen W. Bailey

**NAME:** STEPHEN W. BAILEY

**ADDRESS:** 5801 LOVINGTON HWY, HOBBS, NM 88240

**DATE:** 4-29-03

# HALLIBURTON

## MATERIAL SAFETY DATA SHEET

### FLO-CHEK LIQUID

Revision Date: 06/21/2001

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: FLO-CHEK LIQUID  
Synonyms: None  
Chemical Family: Silicate  
Application: Resin

Manufacturer/Supplier  
Halliburton Energy Services  
P.O. Box 1431  
Duncan, Oklahoma 73536-0431

Emergency Telephone: (800) 666-9260 or (713) 676-3000

Prepared By  
Product Stewardship  
Telephone: 1-580-251-4335

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Substance</u>             | <u>Weight<br/>Percent (%)</u> | <u>ACGIH TLV-TWA</u> | <u>OSHA PEL-TWA</u> |
|------------------------------|-------------------------------|----------------------|---------------------|
| Sodium silicate<br>1344-09-8 | 30 - 60%                      | Not applicable       | Not applicable      |

#### 3. HAZARDS IDENTIFICATION

##### Hazard Overview

May cause respiratory irritation. May cause eye and skin burns. May be harmful if swallowed.

#### 4. FIRST AID MEASURES

##### Inhalation

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes

difficult.

#### **Skin**

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

#### **Eyes**

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

#### **Ingestion**

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

#### **Notes to Physician**

Not Applicable

### **5. FIRE FIGHTING MEASURES**

|                                         |                |
|-----------------------------------------|----------------|
| Flash Point/Range (F):                  | Not Determined |
| Flash Point/Range (C):                  | Not Determined |
| Flash Point Method:                     | Not Determined |
| Autoignition Temperature (F):           | Not Determined |
| Autoignition Temperature (C):           | Not Determined |
| Flammability Limits in Air - Lower (%): | Not Determined |
| Flammability Limits in Air - Upper (%): | Not Determined |

#### **Fire Extinguishing Media**

Water fog, carbon dioxide, foam, dry chemical.

#### **Special Exposure Hazards**

Decomposition in fire may produce toxic gases.

#### **Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

**NFPA Ratings:** Health 2, Flammability 0, Reactivity 0

**HMIS Ratings:** Flammability 0, Reactivity 0, Health 2

### **6. ACCIDENTAL RELEASE MEASURES**

#### **Personal Precautionary Measures**

Use appropriate protective equipment.

#### **Environmental Precautionary Measures**

Prevent from entering sewers, waterways or low areas.

#### **Procedure for Cleaning/Absorption**

Isolate spill and stop leak where safe. Neutralize to pH of 6-8. Scoop up and remove. Do NOT spread spilled product with water.

### **7. HANDLING AND STORAGE**

**Handling Precautions**

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

**Storage Information**

Store away from acids. Store in a cool well ventilated area. Keep container closed when not in use.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Engineering Controls**

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

**Respiratory Protection**

Dust/mist respirator. (95%)

**Hand Protection**

Impervious rubber gloves.

**Skin Protection**

Full protective chemical resistant clothing.

**Eye Protection**

Chemical goggles; also wear a face shield if splashing hazard exists.

**Other Precautions**

Eyewash fountains and safety showers must be easily accessible.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                                    |                |
|----------------------------------------------------|----------------|
| <b>Physical State:</b>                             | Liquid         |
| <b>Color:</b>                                      | Clear to hazy  |
| <b>Odor:</b>                                       | Slightly soapy |
| <b>pH:</b>                                         | 11.3           |
| <b>Specific Gravity @ 20 C (Water=1):</b>          | 1.4            |
| <b>Density @ 20 C (lbs./gallon):</b>               | 11.66          |
| <b>Bulk Density @ 20 C (lbs/ft3):</b>              | Not Determined |
| <b>Boiling Point/Range (F):</b>                    | 213            |
| <b>Boiling Point/Range (C):</b>                    | 100            |
| <b>Freezing Point/Range (F):</b>                   | 30             |
| <b>Freezing Point/Range (C):</b>                   | -2             |
| <b>Vapor Pressure @ 20 C (mmHg):</b>               | 156            |
| <b>Vapor Density (Air=1):</b>                      | Not Determined |
| <b>Percent Volatiles:</b>                          | 80             |
| <b>Evaporation Rate (Butyl Acetate=1):</b>         | Not Determined |
| <b>Solubility in Water (g/100ml):</b>              | Soluble        |
| <b>Solubility in Solvents (g/100ml):</b>           | Not Determined |
| <b>Solubility in Sea Water (g/100ml):</b>          | Soluble        |
| <b>VOCs (lbs./gallon):</b>                         | Not Determined |
| <b>Viscosity, Dynamic @ 20 C (centipoise):</b>     | Not Determined |
| <b>Viscosity, Kinematic @ 20 C (centistrokes):</b> | Not Determined |
| <b>Partition Coefficient/n-Octanol/Water:</b>      | Not Determined |

Molecular Weight (g/mole):

Not Determined

## 10. STABILITY AND REACTIVITY

**Stability Data:** Stable

**Hazardous Polymerization:** Will Not Occur

**Conditions to Avoid**

None anticipated

**Incompatibility (Materials to Avoid)**

Strong acids. Amphoteric metals such as aluminum, magnesium, lead, tin, or zinc.

**Hazardous Decomposition Products**

Toxic fumes.

**Additional Guidelines**

Not Applicable

## 11. TOXICOLOGICAL INFORMATION

**Principle Route of Exposure**

Eye or skin contact, inhalation.

**Inhalation**

Causes severe respiratory irritation.

**Skin Contact**

Causes severe burns.

**Eye Contact**

May cause eye burns.

**Ingestion**

Causes burns of the mouth, throat and stomach.

**Aggravated Medical Conditions**

Skin disorders.

**Chronic Effects/Carcinogenicity**

No data available to indicate product or components present at greater than 1% are chronic health hazards.

**Other Information**

None known.

**Toxicity Tests**

**Oral Toxicity:** LD50: 2000-3000 mg/kg (Rat)

**Dermal Toxicity:** Not determined

**Inhalation Toxicity:** Not determined

**Primary Irritation Effect:** Not determined

**Carcinogenicity**  
Not determined

**Genotoxicity:** Not determined

**Reproductive/Developmental Toxicity:** Not determined

## **12. ECOLOGICAL INFORMATION**

**Mobility (Water/Soil/Air)**  
Not determined

**Persistence/Degradability**  
Not determined

**Bio-accumulation**  
Not Determined

### **Ecotoxicological Information**

#### **Acute Fish Toxicity:**

Not determined

#### **Acute Crustaceans Toxicity:**

Not determined

#### **Acute Algae Toxicity:**

Not determined

**Chemical Fate Information**  
Not determined

**Other Information**  
Not applicable

## **13. DISPOSAL CONSIDERATIONS**

**Disposal Method**  
Disposal should be made in accordance with federal, state and local regulations.

**Contaminated Packaging**  
If empty container retains product residues, all label precautions must be observed. Transport with all closures in place. Return for reuse or disposal according to national or local regulations.

## **14. TRANSPORT INFORMATION**

### **Land Transportation**

DOT



Not restricted

**Canadian TDG**

Not restricted

**ADR**

Not restricted

**Air Transportation**

**ICAO/IATA**

Not restricted

**Sea Transportation**

**IMDG**

Not restricted

**Other Shipping Information**

**Labels:** None

**15. REGULATORY INFORMATION**

**US Regulations**

**US TSCA Inventory**

All components listed on inventory.

**EPA SARA Title III Extremely Hazardous Substances**

Not applicable

**EPA SARA (311,312) Hazard Class**

Acute Health Hazard

**EPA SARA (313) Chemicals**

This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313. (40 CFR 372).

**EPA CERCLA/Superfund Reportable Spill Quantity For This Product**

Not applicable.

**EPA RCRA Hazardous Waste Classification**

If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.

**California Proposition 65**

All components listed do not apply to the California Proposition 65 Regulation.

**MA Right-to-Know Law**

Does not apply.

**NJ Right-to-Know Law**

Does not apply.

**PA Right-to-Know Law**

Does not apply.

**Canadian Regulations**

**Canadian DSL Inventory**

All components listed on inventory.

**WHMIS Hazard Class**

E Corrosive Material

**16. OTHER INFORMATION**

**The following sections have been revised since the last issue of this MSDS**

Not applicable

**Additional Information**

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Material Safety Data Sheet for this or other Halliburton products, contact Product Stewardship at 1-580-251-4335.

**Disclaimer Statement**

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

**\*\*\*END OF MSDS\*\*\***

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

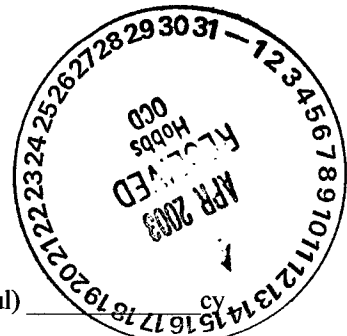
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Halliburton           |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5. Originating Site Brownfield, TX |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6. Transporter CRI                 |
| 7. Location of Material (Street Address or ULSTR) 1301 W Webb, Brownfield, TX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8. State New Mexico                |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                    |

BRIEF DESCRIPTION OF MATERIAL:

RE: 04.02.03

Wash water sump and waste water.

Estimated Volume 300 bbl Known Volume (to be entered by the operator at the end of the haul)



SIGNATURE David Parsons TITLE: VP DATE: 04-10-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: David Parsons TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: Dr. Johnson TITLE: ENVIRO ENGR DATE: 4/15/03  
APPROVED BY: Monty G. H. TITLE: Environmental Geologist DATE: 4/21/03

2-501240

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL**

AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: Halliburton Energy Services

ADDRESS: 1301 W. Webb, Brownfield, Tx, 79316

GENERATING SITE: Same

COUNTY Terry STATE Tx

TYPE OF WASTE: Wash rock Grit

ESTIMATED VOLUME: \_\_\_\_\_

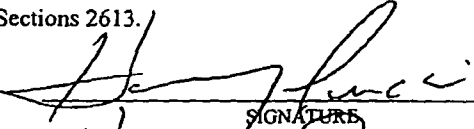
GENERATING PROCESS: waste water/grit from the  
washing of Oilfield equipment

REMARKS: \_\_\_\_\_

NMOCD FACILITY: Controlled Recovery Inc.

TRUCKING FACILITY: Controlled Recovery Inc.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous of listed waste" pursuant to the provisions of 40 CFR, Part 261, subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: 

SIGNATURE

NAME: Harvey Price

PRINTED

ADDRESS: H.E.S. 5801 Lovington Hwy, Hobbs, N.m.

DATE: 3-5-2003



PHONE (815) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
HALLIBURTON ENERGY SERVICES  
ATTN: STEVE BAILEY  
5801 LOVINGTON HWY.  
HOBBS, NM 88240  
FAX TO:

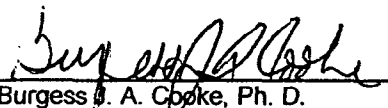
Receiving Date: 03/25/03  
Reporting Date: 03/28/03  
Project Owner: HALLIBURTON  
Project Name: WASHWATER SUMP & WASTEWATER  
Project Location: BROWNFIELD, TX

Analysis Date: 03/27/03  
Sampling Date: 03/25/03  
Sample Type: WASTEWATER  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

LAB NUMBER SAMPLE ID FATS, OIL & GREASE  
(mg/L)

|                             |             |      |
|-----------------------------|-------------|------|
| H7549-2                     | WASTE WATER | 1.07 |
|                             |             |      |
|                             |             |      |
|                             |             |      |
|                             |             |      |
|                             |             |      |
|                             |             |      |
|                             |             |      |
|                             |             |      |
|                             |             |      |
| Quality Control             |             | 99.3 |
| True Value QC               |             | 100  |
| % Recovery                  |             | 99.3 |
| Relative Percent Difference |             | 4.0  |

METHODS: EPA 600/4-79-020, 413.1

  
Burgess J. A. Cooke, Ph. D.

3/28/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. Cardinal shall be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



# ARDINAL LABORATORIES

PHONE (815) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
HALLIBURTON ENERGY SERVICES  
ATTN: STEVE BAILEY  
5801 LOVINGTON HWY.  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 03/25/03  
Reporting Date: 03/26/03  
Project Owner: HALLIBURTON  
Project Name: WASHWATER SUMP & WASTEWATER  
Project Location: BROWNFIELD, TX  
Lab Number: H7549-1  
Sample ID: WASHBAY SUMP

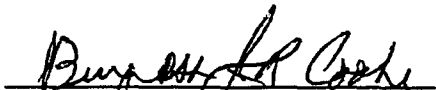
Analysis Date: 03/26/03  
Sampling Date: 03/25/03  
Sample Type: WASTEWATER  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: BC

| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7549-1 | Method<br>Blank | QC    | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|-------|---------|------------------|
| Vinyl Chloride       | 0.20         | <0.005                   | <0.005          | 0.114 | 114     | 0.100            |
| 1,1-Dichloroethylene | 0.7          | <0.005                   | <0.005          | 0.090 | 90      | 0.100            |
| Methyl Ethyl Ketone  | 200          | <0.050                   | <0.050          | 0.108 | 108     | 0.100            |
| Chloroform           | 6.0          | <0.005                   | <0.005          | 0.090 | 90      | 0.100            |
| 1,2-Dichloroethane   | 0.5          | <0.005                   | <0.005          | 0.094 | 94      | 0.100            |
| Benzene              | 0.5          | <0.005                   | <0.005          | 0.091 | 91      | 0.100            |
| Carbon Tetrachloride | 0.5          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| Trichloroethylene    | 0.5          | <0.005                   | <0.005          | 0.091 | 91      | 0.100            |
| Tetrachloroethylene  | 0.7          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| Chlorobenzene        | 100          | <0.005                   | <0.005          | 0.089 | 89      | 0.100            |
| 1,4-Dichlorobenzene  | 7.5          | <0.005                   | <0.005          | 0.108 | 108     | 0.100            |

#### % RECOVERY

|                      |    |
|----------------------|----|
| Dibromofluoromethane | 92 |
| Toluene-d8           | 98 |
| Bromofluorobenzene   | 89 |

METHODS: EPA SW 846-8260, 1311

  
Burgess J.A. Cooke Ph. D.

3/26/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client. Its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
HALLIBURTON ENERGY SERVICES  
ATTN: STEVE BAILEY  
5801 LOVINGTON HWY.  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 03/25/03  
Reporting Date: 03/26/03  
Project Owner: HALLIBURTON  
Project Name: WASHWATER SUMP & WASTEWATER  
Project Location: BROWNFIELD, TX  
Lab Number: H7549-1  
Sample ID: WASHBAY SUMP

Analysis Date: 03/26/03  
Sampling Date: 03/25/03  
Sample Type: WASTEWATER  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: BC

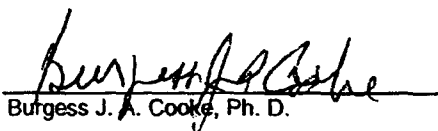
| TCLP SEMIVOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7549-1 | Method<br>Blank | QC    | % Recov. | True Value<br>QC |
|--------------------------|--------------|--------------------------|-----------------|-------|----------|------------------|
| Pyridine                 | 5.00         | <0.100                   | <0.005          | 0.019 | 38       | 0.050            |
| 1,4-Dichlorobenzene      | 7.50         | <0.100                   | <0.005          | 0.035 | 70       | 0.050            |
| o-Cresol                 | 200          | <0.100                   | <0.005          | 0.041 | 82       | 0.050            |
| m, p-Cresol              | 200          | <0.100                   | <0.005          | 0.042 | 84       | 0.050            |
| Hexachloroethane         | 3.00         | <0.100                   | <0.005          | 0.036 | 72       | 0.050            |
| Nitrobenzene             | 2.00         | <0.100                   | <0.005          | 0.048 | 96       | 0.050            |
| Hexachloro-1,3-butadiene | 0.500        | <0.100                   | <0.005          | 0.041 | 82       | 0.050            |
| 2,4,6-Trichlorophenol    | 2.00         | <0.100                   | <0.005          | 0.049 | 98       | 0.050            |
| 2,4,5-Trichlorophenol    | 400          | <0.100                   | <0.005          | 0.044 | 88       | 0.050            |
| 2,4-Dinitrotoluene       | 0.130        | <0.100                   | <0.005          | 0.051 | 102      | 0.050            |
| Hexachlorobenzene        | 0.130        | <0.100                   | <0.005          | 0.052 | 104      | 0.050            |
| Pentachlorophenol        | 100          | <0.100                   | <0.005          | 0.043 | 86       | 0.050            |

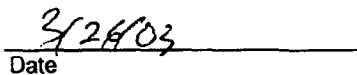
% RECOVERY

|                      |     |
|----------------------|-----|
| Fluorophenol         | 67  |
| Phenol-d5            | 61  |
| Nitrobenzene-d5      | 85  |
| 2-Fluorobiphenyl     | 97  |
| 2,4,6-Tribromophenol | 76  |
| Terphenyl-d14        | 101 |

METHODS: EPA SW-846 1311, 8270, 3510

NOTE: Matrix interference (high levels of 2-Butoxyethanol) observed; dilution required.

  
Burgess J. A. Cooke, Ph. D.

  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
HALLIBURTON ENERGY SERVICES  
ATTN: STEVE BAILEY  
5801 LOVINGTON HWY.  
HOBBS, NM 88240

Receiving Date: 03/25/03  
Reporting Date: 04/01/03  
Project Owner: HALLIBURTON  
Project Name: WASHWATER SUMP & WASTEWATER  
Project Location: BROWNFIELD, TX

FAX TO:

Sampling Date: 03/25/03  
Sample Type: WASTEWATER  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: BC/AH

LAB NO. SAMPLE ID

| REACTIVITY       |                  |                     |                      |
|------------------|------------------|---------------------|----------------------|
| Sulfide<br>(ppm) | Cyanide<br>(ppm) | CORROSIVITY<br>(pH) | IGNITABILITY<br>(°F) |

|                             |              |              |          |          |
|-----------------------------|--------------|--------------|----------|----------|
| ANALYSIS DATE:              | 04/01/03     | 04/01/03     | 03/27/03 | 03/28/03 |
| H7549-1 WASHBAY SUMP        | Not reactive | Not reactive | 7.23     | >140     |
|                             |              |              |          |          |
|                             |              |              |          |          |
|                             |              |              |          |          |
|                             |              |              |          |          |
| Quality Control             | NR           | NR           | 7.06     | NR       |
| True Value QC               | NR           | NR           | 7.00     | NR       |
| % Recovery                  | NR           | NR           | 101      | NR       |
| Relative Percent Difference | NR           | NR           | 0        | NR       |

METHOD: EPA SW-846 7.3, 7.2, 1010, 1311, 40 CFR 261

Chemist

4/1/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. No event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





# ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
HALLIBURTON ENERGY SERVICES  
ATTN: STEVE BAILEY  
5801 LOVINGTON HWY  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 03/25/03  
Reporting Date: 03/31/03  
Project Owner: HALLIBURTON  
Project Name: WASHWATER SUMP  
Project Location: BROWNFIELD, TX

Sampling Date: 03/25/03  
Sample Type: WASTEWATER  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: AH

## TCLP METALS

| LAB NO.                      | SAMPLE ID    | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|------------------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ANALYSIS DATE:               |              | 03/31/03  | 03/31/03  | 03/31/03  | 03/31/03  | 03/31/03  | 03/31/03  | 03/31/03  | 03/31/03  |
| EPA LIMITS:                  |              | 5         | 5         | 100       | 1         | 5         | 5         | 0.2       | 1         |
| H7549-1                      | WASHBAY SUMP | <1        | <1        | <5        | <0.1      | <1        | <1        | <0.02     | <0.1      |
|                              |              |           |           |           |           |           |           |           |           |
|                              |              |           |           |           |           |           |           |           |           |
|                              |              |           |           |           |           |           |           |           |           |
|                              |              |           |           |           |           |           |           |           |           |
| Quality Control              |              | 0.050     | 5.019     | 21.40     | 1.105     | 4.659     | 0.891     | 0.0103    | 0.054     |
| True Value QC                |              | 0.050     | 5.000     | 25.00     | 1.000     | 5.000     | 1.000     | 0.0100    | 0.050     |
| % Recovery                   |              | 100       | 100       | 85.6      | 111       | 93.2      | 89.1      | 103       | 108       |
| Relative Standard Deviation  |              | 1.1       | 0.3       | 1.4       | 0.4       | 0.4       | 1.1       | 1.3       | 3.2       |
| METHODS: EPA 1311, 600/4-91. |              | 206.2     | 272.1     | 208.1     | 213.1     | 218.1     | 239.1     | 245.1     | 270.2     |

Amy Hill  
Chemist

3/31/03  
Date

H7549

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

**ARDINAL LABORATORIES, INC.**

**2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240**  
**(915) 673-7001 Fax (915) 673-7020 (505) 393-2328 Fax (505) 393-2476**

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page \_\_\_\_\_ of \_\_\_\_\_

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Halliburton        |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5. Originating Site Artesia, NM |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6. Transporter CRI              |
| 7. Location of Material (Street Address or ULSTR) 2311 S First, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8. State New Mexico             |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                 |

### BRIEF DESCRIPTION OF MATERIAL:

RE: 04.01.03

Wash water sump and waste water.

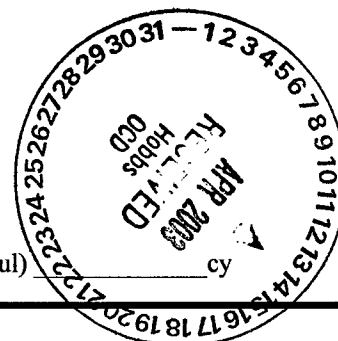
Estimated Volume 150 bbl Known Volume (to be entered by the operator at the end of the haul)

SIGNATURE David Parsons TITLE: VP DATE: 04-10-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: David Parsons TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: W. Johnson TITLE: ENVIRONMENTAL ENGR DATE: 4/15/03  
APPROVED BY: Monty J. Kelly TITLE: Environmental Geologist DATE: 4/21/03



1-301260

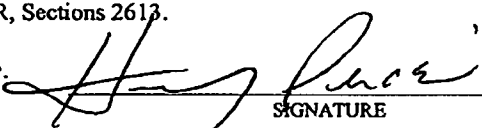
**CERTIFICATE OF WASTE STATUS**  
**NON-EXEMPT WASTE MATERIAL**  
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: HalliburtonADDRESS: 2311 S. 1<sup>ST</sup> ST.GENERATING SITE: ARTESIA YardCOUNTY EDDY STATE NMTYPE OF WASTE: Wash Rack GritESTIMATED VOLUME: 300,000 lbs. 150 BBLGENERATING PROCESS: Wash Rack Sumps

REMARKS: \_\_\_\_\_

NMOCD FACILITY: CONTROLLED RECOVERY INCTRUCKING FACILITY: CONTROLLED RECOVERY INC

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous of listed waste" pursuant to the provisions of 40 CFR, Part 261, subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.2.

AGENT: 

SIGNATURE

NAME: HARVEY PRICE

PRINTED

ADDRESS: 5801 Lovington Hwy Hobbs, NM 88240DATE: 3/19/2003



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
HALLIBURTON ENERGY SERVICES  
ATTN: STEVE BAILEY  
5801 LOVINGTON HWY.  
HOBBS, NM 88240  
FAX TO:

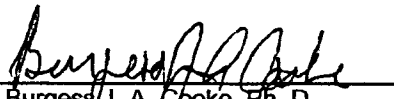
Receiving Date: 03/26/03  
Reporting Date: 03/28/03  
Project Owner: HALLIBURTON  
Project Name: WASHWATER SUMP & WASTEWATER  
Project Location: ARTESIA, NM

Analysis Date: 03/27/03  
Sampling Date: 03/26/03  
Sample Type: WASTEWATER  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

LAB NUMBER SAMPLE ID FATS, OIL & GREASE  
(mg/L)

|                             |             |      |
|-----------------------------|-------------|------|
| H7557-2                     | WASTE WATER | 206  |
|                             |             |      |
|                             |             |      |
|                             |             |      |
|                             |             |      |
|                             |             |      |
|                             |             |      |
|                             |             |      |
|                             |             |      |
|                             |             |      |
| Quality Control             |             | 99.3 |
| True Value QC               |             | 100  |
| % Recovery                  |             | 99.3 |
| Relative Percent Difference |             | 4.0  |

METHODS: EPA 600/4-79-020, 413.1

  
Burgess J. A. Cooke, Ph. D.

3/28/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
HALLIBURTON ENERGY SERVICES  
ATTN: STEVE BAILEY  
5801 LOVINGTON HWY.  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 03/26/03  
Reporting Date: 03/27/03  
Project Owner: HALLIBURTON  
Project Name: WASHWATER SUMP & WASTEWATER  
Project Location: ARTESIA, NM  
Lab Number: H7557-1  
Sample ID: WASHBAY SUMP

Analysis Date: 03/26/03  
Sampling Date: 03/26/03  
Sample Type: WASTEWATER  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: BC

| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7557-1 | Method<br>Blank | QC    | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|-------|---------|------------------|
| Vinyl Chloride       | 0.20         | <0.005                   | <0.005          | 0.114 | 114     | 0.100            |
| 1,1-Dichloroethylene | 0.7          | <0.005                   | <0.005          | 0.090 | 90      | 0.100            |
| Methyl Ethyl Ketone  | 200          | 0.058                    | <0.050          | 0.108 | 108     | 0.100            |
| Chloroform           | 6.0          | <0.005                   | <0.005          | 0.090 | 90      | 0.100            |
| 1,2-Dichloroethane   | 0.5          | <0.005                   | <0.005          | 0.094 | 94      | 0.100            |
| Benzene              | 0.5          | <0.005                   | <0.005          | 0.091 | 91      | 0.100            |
| Carbon Tetrachloride | 0.5          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| Trichloroethylene    | 0.5          | <0.005                   | <0.005          | 0.091 | 91      | 0.100            |
| Tetrachloroethylene  | 0.7          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| Chlorobenzene        | 100          | <0.005                   | <0.005          | 0.089 | 89      | 0.100            |
| 1,4-Dichlorobenzene  | 7.5          | <0.005                   | <0.005          | 0.108 | 108     | 0.100            |

% RECOVERY

|                      |     |
|----------------------|-----|
| Dibromofluoromethane | 102 |
| Toluene-d8           | 108 |
| Bromofluorobenzene   | 99  |

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph. D.

3/27/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
HALLIBURTON ENERGY SERVICES  
ATTN: STEVE BAILEY  
5801 LOVINGTON HWY.  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 03/26/03  
Reporting Date: 03/27/03  
Project Owner: HALLIBURTON  
Project Name: WASHWATER SUMP & WASTEWATER  
Project Location: ARTESIA, NM  
Lab Number: H7557-1  
Sample ID: WASHBAY SUMP

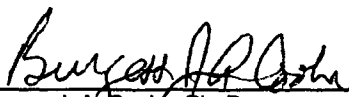
Analysis Date: 03/26/03  
Sampling Date: 03/26/03  
Sample Type: WASTEWATER  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: BC

| TCLP SEMIVOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7557-1 | Method<br>Blank | QC    | % Recov. | True Value<br>QC |
|--------------------------|--------------|--------------------------|-----------------|-------|----------|------------------|
| Pyridine                 | 5.00         | <0.020                   | <0.005          | 0.019 | 38       | 0.050            |
| 1,4-Dichlorobenzene      | 7.50         | <0.020                   | <0.005          | 0.035 | 70       | 0.050            |
| o-Cresol                 | 200          | <0.020                   | <0.005          | 0.041 | 82       | 0.050            |
| m, p-Cresol              | 200          | <0.020                   | <0.005          | 0.042 | 84       | 0.050            |
| Hexachloroethane         | 3.00         | <0.020                   | <0.005          | 0.036 | 72       | 0.050            |
| Nitrobenzene             | 2.00         | <0.020                   | <0.005          | 0.048 | 96       | 0.050            |
| Hexachloro-1,3-butadiene | 0.500        | <0.020                   | <0.005          | 0.041 | 82       | 0.050            |
| 2,4,6-Trichlorophenol    | 2.00         | <0.020                   | <0.005          | 0.049 | 98       | 0.050            |
| 2,4,5-Trichlorophenol    | 400          | <0.020                   | <0.005          | 0.044 | 88       | 0.050            |
| 2,4-Dinitrotoluene       | 0.130        | <0.020                   | <0.005          | 0.051 | 102      | 0.050            |
| Hexachlorobenzene        | 0.130        | <0.020                   | <0.005          | 0.052 | 104      | 0.050            |
| Pentachlorophenol        | 100          | <0.020                   | <0.005          | 0.043 | 86       | 0.050            |

% RECOVERY

|                      |     |
|----------------------|-----|
| Fluorophenol         | 51  |
| Phenol-d5            | 53  |
| Nitrobenzene-d5      | 82  |
| 2-Fluorobiphenyl     | 77  |
| 2,4,6-Tribromophenol | 80  |
| Terphenyl-d14        | 101 |

METHODS: EPA SW-846 1311, 8270, 3510

  
Burgess J. A. Cooke, Ph. D.

3/27/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
HALLIBURTON ENERGY SERVICES  
ATTN: STEVE BAILEY  
5801 LOVINGTON HWY.  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 03/26/03  
Reporting Date: 04/01/03  
Project Owner: HALLIBURTON  
Project Name: WASHWATER SUMP & WASTEWATER  
Project Location: ARTESIA, NM

Sampling Date: 03/26/03  
Sample Type: WASTEWATER  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: BC/AH

LAB NO. SAMPLE ID

|  | REACTIVITY       |                  |                     |                      |
|--|------------------|------------------|---------------------|----------------------|
|  | Sulfide<br>(ppm) | Cyanide<br>(ppm) | CORROSIVITY<br>(pH) | IGNITABILITY<br>(°F) |

|                             |              |              |          |          |
|-----------------------------|--------------|--------------|----------|----------|
| ANALYSIS DATE:              | 04/01/03     | 04/01/03     | 03/27/03 | 03/28/03 |
| H7557-1 WASHBAY SUMP        | Not reactive | Not reactive | 6.77     | >140     |
|                             |              |              |          |          |
|                             |              |              |          |          |
|                             |              |              |          |          |
|                             |              |              |          |          |
|                             |              |              |          |          |
| Quality Control             | NR           | NR           | 7.06     | NR       |
| True Value QC               | NR           | NR           | 7.00     | NR       |
| % Recovery                  | NR           | NR           | 101      | NR       |
| Relative Percent Difference | NR           | NR           | 0        | NR       |

METHOD: EPA SW-846 7.3, 7.2, 1010, 1311, 40 CFR 261

Burgess A. Cole  
Chemist

4/1/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. Cardinal shall be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
HALLIBURTON ENERGY SERVICES  
ATTN: STEVE BAILEY  
5801 LOVINGTON HWY  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 03/26/03  
Reporting Date: 03/31/03  
Project Owner: HALLIBURTON  
Project Name: WASHWATER SUMP  
Project Location: ARTESIA, NM

Sampling Date: 03/26/03  
Sample Type: WASTEWATER  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: AH

TCLP METALS

| LAB NO.                      | SAMPLE ID    | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|------------------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ANALYSIS DATE:               |              | 03/31/03  | 03/31/03  | 03/31/03  | 03/31/03  | 03/31/03  | 03/31/03  | 03/31/03  | 03/31/03  |
| EPA LIMITS:                  |              | 5         | 5         | 100       | 1         | 5         | 5         | 0.2       | 1         |
| H7557-1                      | WASHBAY SUMP | <1        | <1        | <5        | <0.1      | <1        | <1        | <0.02     | <0.1      |
|                              |              |           |           |           |           |           |           |           |           |
|                              |              |           |           |           |           |           |           |           |           |
|                              |              |           |           |           |           |           |           |           |           |
|                              |              |           |           |           |           |           |           |           |           |
| Quality Control              |              | 0.050     | 5.019     | 21.40     | 1.105     | 4.659     | 0.891     | 0.0103    | 0.054     |
| True Value QC                |              | 0.050     | 5.000     | 25.00     | 1.000     | 5.000     | 1.000     | 0.0100    | 0.050     |
| % Recovery                   |              | 100       | 100       | 85.6      | 111       | 93.2      | 89.1      | 103       | 108       |
| Relative Standard Deviation  |              | 1.1       | 0.3       | 1.4       | 0.4       | 0.4       | 1.1       | 1.3       | 3.2       |
| METHODS: EPA 1311, 600/4-91, |              | 206.2     | 272.1     | 208.1     | 213.1     | 218.1     | 239.1     | 245.1     | 270.2     |

Amy Hill  
Chemist

3/31/03  
Date

H7557

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page        of       

+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED  
MAR 14 2003  
Environmental Bureau  
Oil Conservation Division

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

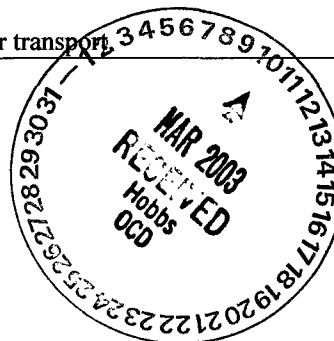
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                 | 4. Generator Computalog       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5. Originating Site Hobbs, NM |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter CRI            |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8. State New Mexico           |
| 7. Location of Material (Street Address or ULSTR) 8600 Lovington Hwy, Hobbs, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved<br>All transporters must certify the wastes delivered are only those consigned for transport |                               |

BRIEF DESCRIPTION OF MATERIAL:

RE: 03.02.03

Waste water from wash bay.



Estimated Volume 2000 bbl Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE [Signature] TITLE: Rep DATE: 03-07-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Lary Parker TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: [Signature] TITLE: Env. Eng. DATE: 3/11/03

APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 3/14/03

031403-2

Mar 07 03 03:27p CRI

5053933615

p.1

CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Computalog  
ADDRESS 8600 Lovington Highway Hobbs, N.M.  
GENERATING SITE Same

COUNTY Lea STATE NM

TYPE OF WASTE Wash tank sump water  
ESTIMATED VOLUME 2000 gallons  
GENERATING PROCESS Washing of tools &  
vehicles

REMARKS \_\_\_\_\_

NMOCD FACILITY CRI Controlled Recovery Inc.

TRUCKING COMPANY CRI Controlled Recovery Inc.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT X David A. Olivas  
SIGNATURE

NAME DAVID A OLIVAS  
PRINTED

ADDRESS 8600 Lovington Hwy

Hobbs, NM 88240

DATE 3-7-03

TraceAnalysis, Inc.

6701 Aberdeen Ave., Suite 9

Lubbock, TX 79424-1515

(806) 794-1296

Report Date: March 6, 2003 Order Number: A03022022

Page Number: 1 of 2

Wash Bay Sump

N/A

Hobbs, NM

## Summary Report

David Parsons  
Controlled Recovery Inc.  
Box 388  
Hobbs, NM 88241

Report Date: March 6, 2003

Order ID Number: A03022022

Project Number: Wash Bay Sump  
Project Name: N/A  
Project Location: Hobbs, NM

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 221892 | Wash Bay    | Liquid | 2/19/03    | 3:35       | 2/20/03       |

This report consists of a total of 2 page(s) and is intended only as a summary of results for the sample(s) listed above.

### Sample: 221892 - Wash Bay

| Param                                   | Flag | Result        | Units |
|-----------------------------------------|------|---------------|-------|
| <b>Corrosivity</b>                      |      |               |       |
| Corrosivity (EPA limit = >6.5 mm/yr)    |      | non-corrosive | mm/yr |
| pH (EPA limit = <2 >12.5)               |      | 7.5           | s.u.  |
| Ignitability                            |      | non-ignitable |       |
| <b>Reactivity</b>                       |      |               |       |
| Reactivity                              |      | Non-reactive  |       |
| Hydrogen Sulfide (EPA limit = 500)      |      | <10           | mg/Kg |
| Hydrogen Cyanide (EPA limit = 250)      |      | <2.5          | mg/Kg |
| TCLP Mercury (EPA limit = 0.20)         |      | <0.010        | mg/L  |
| <b>TCLP Metals</b>                      |      |               |       |
| TCLP Arsenic (EPA limit = 5.0)          |      | <0.500        | mg/L  |
| TCLP Barium (EPA limit = 100.0)         |      | <1.00         | mg/L  |
| TCLP Cadmium (EPA limit = 1.0)          |      | <0.050        | mg/L  |
| TCLP Chromium (EPA limit = 5.0)         |      | <0.100        | mg/L  |
| TCLP Lead (EPA limit = 5.0)             |      | 0.403         | mg/L  |
| TCLP Selenium (EPA limit = 1.0)         |      | <0.100        | mg/L  |
| TCLP Silver (EPA limit = 5.0)           |      | <0.020        | mg/L  |
| <b>TCLP Semivolatiles</b>               |      |               |       |
| Pyridine (EPA limit = 5.0)              |      | <0.05         | mg/L  |
| 1,4-Dichlorobenzene (EPA limit = 7.5)   |      | <0.05         | mg/L  |
| o-Cresol (EPA limit = 200.0)            |      | 0.062         | mg/L  |
| m,p-Cresol (EPA limit = 200.0)          |      | <0.05         | mg/L  |
| Hexachloroethane (EPA limit = 3.0)      |      | <0.05         | mg/L  |
| Nitrobenzene (EPA limit = 2.0)          |      | <0.05         | mg/L  |
| Hexachlorobutadiene (EPA limit = 0.5)   |      | <0.05         | mg/L  |
| 2,4,6-Trichlorophenol (EPA limit = 2.0) |      | <0.05         | mg/L  |

Continued on next page ...

<sup>1</sup> >150F

This is only a summary. Please, refer to the complete report package for quality control data.

TraceAnalysis, Inc.

6701 Aberdeen Ave., Suite 9

Lubbock, TX 79424-1515

(806) 794-1296

Report Date: March 6, 2003 Order Number: A03022022

Page Number: 2 of 2

Wash Bay Sump

N/A

Hobbs, NM

Sample #21892 continued ...

| Param                                       | Flag | Result | Units |
|---------------------------------------------|------|--------|-------|
| 2,4,5-Trichlorophenol (EPA limit = 400.0)   |      | <0.05  | mg/L  |
| 2,4-Dinitrotoluene (EPA limit = 0.13)       |      | <0.05  | mg/L  |
| 2,4-D (EPA limit = 10.0)                    |      | <0.05  | mg/L  |
| Hexachlorobenzene (EPA limit = 0.13)        |      | <0.05  | mg/L  |
| 2,4,5-TP (EPA limit = 1.0)                  |      | <0.05  | mg/L  |
| Pentachlorophenol (EPA limit = 100.0)       |      | <0.05  | mg/L  |
| <b>TCLP Volatiles</b>                       |      |        |       |
| Vinyl Chloride (EPA limit = 0.20)           |      | <0.05  | mg/L  |
| 1,1-Dichloroethene (EPA limit = 0.70)       |      | <0.05  | mg/L  |
| Methyl ethyl ketone (EPA limit = 200.0)     |      | <0.50  | mg/L  |
| Chloroform (EPA limit = 6.00)               |      | <0.05  | mg/L  |
| 1,2-Dichloroethane (EDC) (EPA limit = 0.50) |      | <0.05  | mg/L  |
| Benzene (EPA limit = 0.50)                  |      | <0.05  | mg/L  |
| Carbon Tetrachloride (EPA limit = 0.50)     |      | <0.05  | mg/L  |
| Trichloroethene (TCE) (EPA limit = 0.50)    |      | <0.05  | mg/L  |
| Tetrachloroethene (PCE) (EPA limit = 0.70)  |      | <0.05  | mg/L  |
| Chlorobenzene (EPA limit = 100.00)          |      | <0.05  | mg/L  |
| 1,4-Dichlorobenzene (EPA limit = 7.50)      |      | <0.05  | mg/L  |

This is only a summary. Please, refer to the complete report package for quality control data.



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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

MAR 14 2003  
Environmental Bureau  
Oil Conservation Division

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

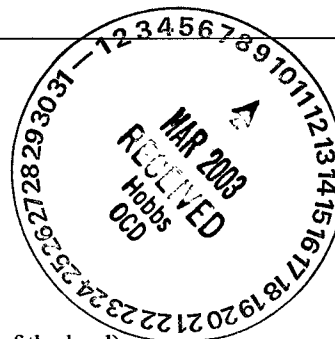
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator Compressor Components |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5. Originating Site Odessa, TX     |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6. Transporter CRI                 |
| 7. Location of Material (Street Address or ULSTR) 2605 W 42 <sup>nd</sup> Odessa, TX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8. State New Mexico                |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                    |

BRIEF DESCRIPTION OF MATERIAL:

RE: 03.01.03

Oil based LAP – used in overhauling oilfield compressors.



Estimated Volume 3 – 55 drums Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE David Parsons TITLE: VP DATE: 03-07-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: David Parsons TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: [Signature] TITLE: Enviro ENGR DATE: 3/11/03  
APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 3/14/03

031403-1



12500 West 1-20 East  
Odessa, Texas 79763

Phone: 915-563-1800  
Fax: 915-563-1713

### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Project Manager:**

**Project Name:**

**Company Name**

**Project #:**

**Company Address:**

**Project Loc:**

City/State/Zip Odessa, TX

Telephone No: 317-7786 Ext. 152

Fax No: 367-0335

**Sampler Signature:**

Julio Martinez

[illegible]

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****METALS RCRA 7 TCLP**

Order#: G0305728

| <b>BLANK</b>       | <b>SOLID</b> | <b>LAB-ID #</b> | <b>Sample Concentr.</b> | <b>Spike Concentr.</b> | <b>QC Test Result</b> | <b>Pct (%) Recovery</b> | <b>RPD</b> |
|--------------------|--------------|-----------------|-------------------------|------------------------|-----------------------|-------------------------|------------|
| Arsenic-mg/L       |              | 0004727-02      |                         |                        | <0.008                |                         |            |
| Barium-mg/L        |              | 0004727-02      |                         |                        | <0.001                |                         |            |
| Cadmium-mg/L       |              | 0004727-02      |                         |                        | <0.001                |                         |            |
| Chromium-mg/L      |              | 0004727-02      |                         |                        | <0.002                |                         |            |
| Lead-mg/L          |              | 0004727-02      |                         |                        | <0.011                |                         |            |
| Selenium-mg/L      |              | 0004727-02      |                         |                        | <0.004                |                         |            |
| Silver-mg/L        |              | 0004727-02      |                         |                        | <0.002                |                         |            |
| <b>CONTROL</b>     | <b>SOLID</b> | <b>LAB-ID #</b> | <b>Sample Concentr.</b> | <b>Spike Concentr.</b> | <b>QC Test Result</b> | <b>Pct (%) Recovery</b> | <b>RPD</b> |
| Arsenic-mg/L       |              | 0004727-03      |                         | 0.8                    | 0.834                 | 104.3%                  |            |
| Barium-mg/L        |              | 0004727-03      |                         | 0.2                    | 0.184                 | 92.0%                   |            |
| Cadmium-mg/L       |              | 0004727-03      |                         | 0.2                    | 0.190                 | 95.0%                   |            |
| Chromium-mg/L      |              | 0004727-03      |                         | 0.2                    | 0.181                 | 90.5%                   |            |
| Lead-mg/L          |              | 0004727-03      |                         | 1                      | 1.03                  | 103.0%                  |            |
| Selenium-mg/L      |              | 0004727-03      |                         | 0.4                    | 0.424                 | 106.0%                  |            |
| Silver-mg/L        |              | 0004727-03      |                         | 0.1                    | 0.106                 | 106.0%                  |            |
| <b>CONTROL DUP</b> | <b>SOLID</b> | <b>LAB-ID #</b> | <b>Sample Concentr.</b> | <b>Spike Concentr.</b> | <b>QC Test Result</b> | <b>Pct (%) Recovery</b> | <b>RPD</b> |
| Arsenic-mg/L       |              | 0004727-04      |                         | 0.8                    | 0.813                 | 101.6%                  | 2.6%       |
| Barium-mg/L        |              | 0004727-04      |                         | 0.2                    | 0.187                 | 93.5%                   | 1.6%       |
| Cadmium-mg/L       |              | 0004727-04      |                         | 0.2                    | 0.185                 | 92.5%                   | 2.7%       |
| Chromium-mg/L      |              | 0004727-04      |                         | 0.2                    | 0.183                 | 91.5%                   | 1.1%       |
| Lead-mg/L          |              | 0004727-04      |                         | 1                      | 1.01                  | 101.0%                  | 2.9%       |
| Selenium-mg/L      |              | 0004727-04      |                         | 0.4                    | 0.424                 | 106.0%                  | 0.1%       |
| Silver-mg/L        |              | 0004727-04      |                         | 0.1                    | 0.105                 | 105.0%                  | 0.9%       |
| <b>SRM</b>         | <b>SOLID</b> | <b>LAB-ID #</b> | <b>Sample Concentr.</b> | <b>Spike Concentr.</b> | <b>QC Test Result</b> | <b>Pct (%) Recovery</b> | <b>RPD</b> |
| Arsenic-mg/L       |              | 0004727-05      |                         | 1                      | 0.964                 | 96.4%                   |            |
| Barium-mg/L        |              | 0004727-05      |                         | 1                      | 0.934                 | 93.4%                   |            |
| Cadmium-mg/L       |              | 0004727-05      |                         | 1                      | 0.923                 | 92.3%                   |            |
| Chromium-mg/L      |              | 0004727-05      |                         | 1                      | 0.989                 | 98.9%                   |            |
| Lead-mg/L          |              | 0004727-05      |                         | 1                      | 0.981                 | 98.1%                   |            |
| Selenium-mg/L      |              | 0004727-05      |                         | 1                      | 1.00                  | 100.0%                  |            |
| Silver-mg/L        |              | 0004727-05      |                         | 0.5                    | 0.530                 | 106.0%                  |            |

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### Test Parameters

Order#: G0305728

|                    |     |            |                  |                 |                |                  |      |
|--------------------|-----|------------|------------------|-----------------|----------------|------------------|------|
| <b>BLANK</b>       |     |            |                  |                 |                |                  |      |
|                    | OIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Mercury, TCLP-mg/L |     | 0004720-01 |                  |                 | 0.00050        |                  |      |
| <b>MS</b>          |     |            |                  |                 |                |                  |      |
|                    | OIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Mercury, TCLP-mg/L |     | 0305728-01 | 0                | 0.001           | 0.00095        | 95.0%            |      |
| <b>MSD</b>         |     |            |                  |                 |                |                  |      |
|                    | OIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Mercury, TCLP-mg/L |     | 0305728-01 | 0                | 0.001           | 0.00090        | 90.0%            | 5.4% |
| <b>SRM</b>         |     |            |                  |                 |                |                  |      |
|                    | OIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Mercury, TCLP-mg/L |     | 0004720-04 |                  | 0.001           | 0.00108        | 108.0%           |      |

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

JULIO C. MARTINEZ  
COMPRESSOR COMPONENTS  
P.O. BOX 1209  
ODESSA, TX 79761

Order#: G0305728  
Project:  
Project Name: None Given  
Location: Plant #1

Lab ID: Q305728-01  
Sample ID: Oil Based Lap

### METALS RCRA 7 TCLP

| Parameter | haz   | Result | Units | Dilution Factor | RL    | Method     | Date Prepared | Date Analyzed | Analyst |
|-----------|-------|--------|-------|-----------------|-------|------------|---------------|---------------|---------|
| Arsenic   | 5.0   | <0.008 | mg/L  | 1               | 0.008 | 1311/6010B | 02/22/2003    | 2/24/03       | SM      |
| Barium    | 100.0 | 0.050  | mg/L  | 1               | 0.001 | 1311/6010B | 02/22/2003    | 2/24/03       | SM      |
| Cadmium   | 1.0   | 0.006  | mg/L  | 1               | 0.001 | 1311/6010B | 02/22/2003    | 2/25/03       | SM      |
| Chromium  | 5.0   | 0.052  | mg/L  | 1               | 0.002 | 1311/6010B | 02/22/2003    | 2/24/03       | SM      |
| Lead      | 5.0   | <0.011 | mg/L  | 1               | 0.011 | 1311/6010B | 02/22/2003    | 2/24/03       | SM      |
| Selenium  | 1.0   | 0.044  | mg/L  | 1               | 0.004 | 1311/6010B | 02/22/2003    | 2/24/03       | SM      |
| Silver    | 5.0   | <0.002 | mg/L  | 1               | 0.002 | 1311/6010B | 02/22/2003    | 2/24/03       | SM      |

### Test Parameters

| Parameter     | Result | Units    | Dilution Factor | RL | Method  | Date Prepared | Date Analyzed | Analyst    |
|---------------|--------|----------|-----------------|----|---------|---------------|---------------|------------|
| Mercury, TCLP | .2     | <0.00050 | mg/L            | 1  | 0.00050 | 7471          | 02/22/2003    | 2/24/03 SM |

Approval: Roland K. Tuttle 2-26-03  
 Roland K. Tuttle, Lab Director, QA Officer  
 Cely D. Keene, Org. Tech. Director  
 Jeanne McMurrey, Inorg. Tech. Director  
 Sandra Biczugbe, Lab Tech.  
 Sara Molina, Lab Tech.

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****METALS RCRA 7 TCLP**

Order#: G0305728

| <b>BLANK</b>       |       | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
|--------------------|-------|------------|------------------|-----------------|----------------|------------------|------|
|                    | SOLID |            |                  |                 |                |                  |      |
| Arsenic-mg/L       |       | 0004727-02 |                  |                 | <0.008         |                  |      |
| Barium-mg/L        |       | 0004727-02 |                  |                 | <0.001         |                  |      |
| Cadmium-mg/L       |       | 0004727-02 |                  |                 | <0.001         |                  |      |
| Chromium-mg/L      |       | 0004727-02 |                  |                 | <0.002         |                  |      |
| Lead-mg/L          |       | 0004727-02 |                  |                 | <0.011         |                  |      |
| Selenium-mg/L      |       | 0004727-02 |                  |                 | <0.004         |                  |      |
| Silver-mg/L        |       | 0004727-02 |                  |                 | <0.002         |                  |      |
| <b>CONTROL</b>     |       | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
|                    | SOLID |            |                  |                 |                |                  |      |
| Arsenic-mg/L       |       | 0004727-03 |                  | 0.8             | 0.834          | 104.3%           |      |
| Barium-mg/L        |       | 0004727-03 |                  | 0.2             | 0.184          | 92.0%            |      |
| Cadmium-mg/L       |       | 0004727-03 |                  | 0.2             | 0.190          | 95.0%            |      |
| Chromium-mg/L      |       | 0004727-03 |                  | 0.2             | 0.181          | 90.5%            |      |
| Lead-mg/L          |       | 0004727-03 |                  | 1               | 1.03           | 103.0%           |      |
| Selenium-mg/L      |       | 0004727-03 |                  | 0.4             | 0.424          | 106.0%           |      |
| Silver-mg/L        |       | 0004727-03 |                  | 0.1             | 0.106          | 106.0%           |      |
| <b>CONTROL DUP</b> |       | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
|                    | SOLID |            |                  |                 |                |                  |      |
| Arsenic-mg/L       |       | 0004727-04 |                  | 0.8             | 0.813          | 101.6%           | 2.6% |
| Barium-mg/L        |       | 0004727-04 |                  | 0.2             | 0.187          | 93.5%            | 1.6% |
| Cadmium-mg/L       |       | 0004727-04 |                  | 0.2             | 0.185          | 92.5%            | 2.7% |
| Chromium-mg/L      |       | 0004727-04 |                  | 0.2             | 0.183          | 91.5%            | 1.1% |
| Lead-mg/L          |       | 0004727-04 |                  | 1               | 1.01           | 101.0%           | 2.0% |
| Selenium-mg/L      |       | 0004727-04 |                  | 0.4             | 0.424          | 106.0%           | 0.0% |
| Silver-mg/L        |       | 0004727-04 |                  | 0.1             | 0.105          | 105.0%           | 0.9% |
| <b>SRM</b>         |       | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
|                    | SOLID |            |                  |                 |                |                  |      |
| Arsenic-mg/L       |       | 0004727-05 |                  | 1               | 0.964          | 96.4%            |      |
| Barium-mg/L        |       | 0004727-05 |                  | 1               | 0.934          | 93.4%            |      |
| Cadmium-mg/L       |       | 0004727-05 |                  | 1               | 0.923          | 92.3%            |      |
| Chromium-mg/L      |       | 0004727-05 |                  | 1               | 0.989          | 98.9%            |      |
| Lead-mg/L          |       | 0004727-05 |                  | 1               | 0.981          | 98.1%            |      |
| Selenium-mg/L      |       | 0004727-05 |                  | 1               | 1.00           | 100.0%           |      |
| Silver-mg/L        |       | 0004727-05 |                  | 0.5             | 0.530          | 106.0%           |      |

## ANALYTICAL REPORT

### Prepared for:

JULIO C. MARTINEZ  
COMPRESSOR COMPONENTS  
P.O. BOX 1209  
ODESSA, TX 79761

Project: None Given

PO#: 53200-30

Order#: G0305728

Report Date: 02/25/2003

Plant 1 - Oil based  
lapping compound

### Certificates

US EPA Laboratory Code TX00158

---

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

---

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

---

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Compressor Components  
ADDRESS 2605 W. 42nd Odessa TX 79767  
GENERATING SITE 2605 W 42nd Odessa TX 79764

COUNTY Leakey STATE TX

TYPE OF WASTE Oil Based LAP

ESTIMATED VOLUME 3- 55 gallon drums

GENERATING PROCESS Lapping Process

REMARKS \_\_\_\_\_

NMOCDF FACILITY CRT

TRUCKING COMPANY CRT

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Noel Marquez Jr

SIGNATURE

NAME Noel Marquez Jr

PRINTED

ADDRESS PO Box 60228

Midland TX, 79711

DATE 3/7/03

## MATERIAL SAFETY DATA SHEET

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Lapping Vehicle #6  
DATE PRINTED: 11/07/01  
PRODUCT USE/CLASS : Metalworking fluid

SUPPLIER: PART NUMBERS:  
Lapmaster International LAP5-0001-001-0006  
6400 W. Oakton Street LAP5-0001-005-0008  
Morton Grove, IL 60053 LAP5-0001-055-0006

EMERGENCY TELEPHONE: 800-424-9300 Chemtrec--24 Hours  
EMERGENCY TELEPHONE: 800-424-9300 Chemtrec--24 Hours

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| WT/WT % | ACGIH         | OSHA        |           |         |          |  |
|---------|---------------|-------------|-----------|---------|----------|--|
|         | CHEMICAL NAME | CAS NUMBER  | LESS THAN | TLV-TWA | TLV-STEL |  |
|         | PEL-TWA       | PEL-CEILING | SKIN      |         |          |  |

|                                 |               |        |                   |                   |  |  |
|---------------------------------|---------------|--------|-------------------|-------------------|--|--|
| Paraffinic distillates light NO | 00064742-55-8 | 95.0 % | 5mg/m3(mist) N.E. | 5mg/m3(mist) N.E. |  |  |
|---------------------------------|---------------|--------|-------------------|-------------------|--|--|

## SECTION 3 - HAZARDS IDENTIFICATION

\*\*\* EMERGENCY OVERVIEW \*\*\*: No Information.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: This material is not expected to be irritating to the eyes. However if direct eye contact should occur, flush with water for 15 minutes. If irritation should develop and persist then consult a physician.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Not expected to be a skin irritant, however it may cause irritation or dermatitis in some individuals upon prolonged contact.

EFFECTS OF OVEREXPOSURE - INHALATION: This material has a low vapor pressure and is not expected to present an inhalation hazard. However, if the TLV of 5 mg/m3 is exceeded then inhalation of mists or vapors may cause a mild irritation of the mucous membranes of the upper respiratory tract.

EFFECTS OF OVEREXPOSURE - INGESTION: No hazard in normal industrial use.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: No Information.

PRIMARY ROUTE(S) OF ENTRY: INHALATION

## SECTION 4 - FIRST AID MEASURES



**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**FIRST AID - SKIN CONTACT:** Wash with soap and water. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air.

**FIRST AID - INGESTION:** If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

=====|  
**SECTION 5 - FIRE FIGHTING MEASURES** |  
=====|

**FLASH POINT:** 265 F  
(CLEVELAND OPEN CUP)

**LOWER EXPLOSIVE LIMIT:** 0.9 %  
**UPPER EXPLOSIVE LIMIT:** 7.0 %

**AUTOIGNITION TEMPERATURE:** N.A.

**EXTINGUISHING MEDIA:** CO2 DRY CHEMICAL FOAM WATER FOG

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

**SPECIAL FIREFIGHTING PROCEDURES:** Water runoff can cause environmental damage. Dike and collect water used to fight fire.

=====|  
**SECTION 6 - ACCIDENTAL RELEASE MEASURES** |  
=====|

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways.

=====|  
**SECTION 7 - HANDLING AND STORAGE** |  
=====|

**HANDLING:** No special handling techniques required. See Sections 6,8 and 10.

**STORAGE:** Keep away from heat, sparks and flame.

=====|  
**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION** |  
=====|

**ENGINEERING CONTROLS:** Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace

conditions warrant a respirator's use.

SKIN PROTECTION: No Information.

EYE PROTECTION: No Information.

OTHER PROTECTIVE EQUIPMENT: No Information.

HYGIENIC PRACTICES: Wash hands before eating. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Avoid contact with eyes, skin, and clothing.

=====

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

=====

BOILING RANGE : 450 - 450 F VAPOR DENSITY : Is heavier than air  
ODOR : Mild ODOR THRESHOLD : N.A.  
APPEARANCE : Amber liquid EVAPORATION RATE: Is slower than Butyl  
SOLUBILITY IN H2O : Insoluble Acetate  
FREEZE POINT : <25 F SPECIFIC GRAVITY: 0.8225  
VAPOR PRESSURE : <0.1 mm Hg pH @ 0.0 % : N.A.  
PHYSICAL STATE : Liquid VISCOSITY : 45 sus  
COEFFICIENT OF WATER/OIL DISTRIBUTION: 0% WATER

(See Section 16 for abbreviation legend)

=====

SECTION 10 - STABILITY AND REACTIVITY

=====

CONDITIONS TO AVOID: Strong oxidizing agents. Avoid heat, sparks, flame and contact with strong oxidizing agents.

INCOMPATIBILITY: No Information.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and unidentified organic compounds may be formed during combustion.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

=====

SECTION 11 - TOXICOLOGICAL PROPERTIES

=====

No product or component toxicological information is available.

=====

SECTION 12 - ECOLOGICAL INFORMATION

=====

ECOLOGICAL INFORMATION: Under EPA-CWA, this product is classified as an oil under Section 311. Spills into or leading to surface waters that cause a sheen must be reported to the National Response Center, 800-424-8802.

=====

SECTION 13 - DISPOSAL CONSIDERATIONS

=====

DISPOSAL METHOD: Dispose of product in accordance with local, county, state, and federal regulations.

=====

SECTION 14 - TRANSPORTATION INFORMATION

=====

DOT PROPER SHIPPING NAME:

DOT TECHNICAL NAME:

DOT HAZARD CLASS:

HAZARD SUBCLASS:

DOT UN/NA NUMBER:

PACKING GROUP:

RESP. GUIDE PAGE:

=====

SECTION 15 - REGULATORY INFORMATION

=====

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

None

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

----- CHEMICAL NAME ----- CAS NUMBER WT/WT % IS LESS THAN  
No SARA Section 313 components exist in this product.

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

----- CHEMICAL NAME ----- CAS NUMBER  
No Information is available.

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

=====

SECTION 16 - OTHER INFORMATION

=====

HMIS RATINGS - HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 04/15/94

VOLATILE ORGANIC COMPOUNDS (VOCs): 0.00 lbs/gal. 0 grams/ltr

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

=====  
The information contained on this MSDS has been checked and should be  
accurate. However, it is the responsibility of the user to comply with all  
Federal, State, and Local laws and regulations.  
=====

<end>

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED  
FEB 24 2003  
Environmental Bureau  
Oil Conservation Division

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                  | 4. Generator Conoco/Phillips           |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Maljamar Gas Plant |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6. Transporter Conoco/Phillips         |
| 7. Location of Material (Street Address or ULSTR) Maljamar Gas Plant, Lea County                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8. State New Mexico                    |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                        |

BRIEF DESCRIPTION OF MATERIAL:

RE: 02-02-03

Waste air drier desiccant

Attached is Non-exempt Certificate of Waste status, Analytical results.

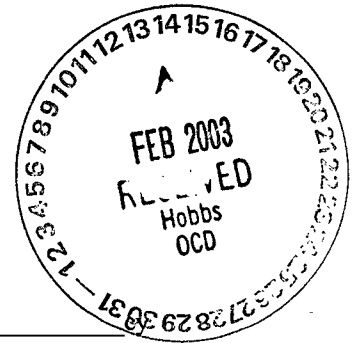
Estimated Volume 3 drums Known Volume (to be entered by the operator at the end of the haul)

SIGNATURE [Signature] TITLE: Bookkeeper DATE: 02-13-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Becky Strickland TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: [Signature] TITLE: Enviro Eng DATE:             
APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 2/25/03



1-105020

**CERTIFICATE OF WASTE STATUS**  
**NON-EXEMPT WASTE MATERIAL**  
**"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY /GENERATOR ConocoPhillipsADDRESS 921 W. Sanger Hobbs, NM 88240GENERATING SITE Maljamar Gas PlantCOUNTY Lee STATE NMTYPE OF WASTE Air drier desiccantESTIMATED VOLUME 3 DrumsGENERATING PROCESS Waste air drier desiccant involved in air compressor  
operation for instrument air supply for gas plant operations

REMARKS \_\_\_\_\_

NMOCD FACILITY Controlled Recovery Inc.TRUCKING COMPANY ConocoPhillips

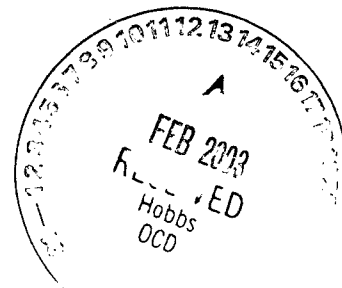
As a condition of acceptance for disposal, I hereby certify that his waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory determinations. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Mark Bishop

SIGNATURE

NAME MARK BISHOP

PRINTED

ADDRESS 921 W. SANGERHOBBS, NM 88240DATE 2-12-03



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONOCO PHILLIPS  
ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 02/05/03  
Reporting Date: 02/07/03  
Project Number: NOT GIVEN  
Project Name: DESICANT DRYER MATERIAL  
Project Location: MALJAMAR PLANT

Sampling Date: 02/05/03  
Sample Type: SOLID  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: AH

## TCLP METALS

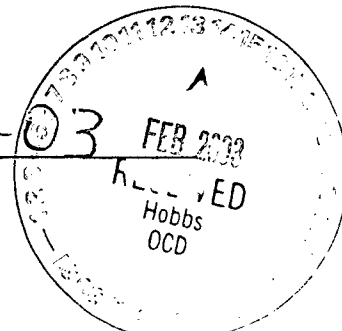
| LAB NO. | SAMPLE ID | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

|                             |          |          |          |          |          |          |          |          |          |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| ANALYSIS DATE:              | 02/07/03 | 02/06/03 | 02/06/03 | 02/06/03 | 02/06/03 | 02/06/03 | 02/06/03 | 02/06/03 | 02/06/03 |
| EPA LIMITS:                 | 5        | 5        | 100      | 1        | 5        | 5        | 0.2      | 1        |          |
| H7459-1                     | <1       | <1       | <5       | <0.1     | <1       | <2       | <0.02    | <0.1     |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
| Quality Control             | 0.053    | 4.718    | 23.89    | 0.917    | 4.795    | 5.004    | 0.0099   | 0.139    |          |
| True Value QC               | 0.050    | 5.000    | 25.00    | 1.000    | 5.000    | 5.000    | 0.0100   | 0.150    |          |
| % Recovery                  | 106      | 94.4     | 95.6     | 91.7     | 95.9     | 100      | 99.0     | 92.7     |          |
| Relative Standard Deviation | 1.3      | 0.5      | 2.5      | 3.1      | 0.3      | 2.0      | 0.1      | 4.9      |          |

|                              |       |       |       |       |       |       |       |       |  |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| METHODS: EPA 1311, 600/4-91, | 206.2 | 272.1 | 208.1 | 213.1 | 218.1 | 239.1 | 245.1 | 270.2 |  |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|

*Amy Hill*  
Chemist

2-7-03  
Date



H7459

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONOCO PHILLIPS  
ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 02/05/03  
Reporting Date: 02/07/03  
Project Number: NOT GIVEN  
Project Name: DESSICANT DRYER MATERIAL  
Project Location: MALJAMAR PLANT  
Lab Number: H7459-1  
Sample ID: -

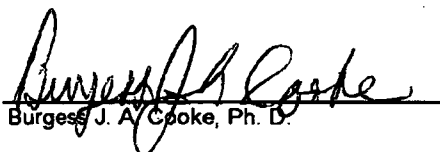
Analysis Date: 02/07/03  
Sampling Date: 02/05/03  
Sample Type: SOLID  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

| TCLP SEMIVOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7459-1 | Method<br>Blank | QC    | % Recov. | True Value<br>QC |
|--------------------------|--------------|--------------------------|-----------------|-------|----------|------------------|
| Pyridine                 | 5.00         | <0.020                   | <0.005          | 0.021 | 42       | 0.050            |
| 1,4-Dichlorobenzene      | 7.50         | <0.020                   | <0.005          | 0.029 | 58       | 0.050            |
| o-Cresol                 | 200          | <0.020                   | <0.005          | 0.044 | 88       | 0.050            |
| m, p-Cresol              | 200          | <0.020                   | <0.005          | 0.038 | 76       | 0.050            |
| Hexachloroethane         | 3.00         | <0.020                   | <0.005          | 0.027 | 54       | 0.050            |
| Nitrobenzene             | 2.00         | <0.020                   | <0.005          | 0.044 | 88       | 0.050            |
| Hexachloro-1,3-butadiene | 0.500        | <0.020                   | <0.005          | 0.033 | 66       | 0.050            |
| 2,4,6-Trichlorophenol    | 2.00         | <0.020                   | <0.005          | 0.041 | 82       | 0.050            |
| 2,4,5-Trichlorophenol    | 400          | <0.020                   | <0.005          | 0.048 | 96       | 0.050            |
| 2,4-Dinitrotoluene       | 0.130        | <0.020                   | <0.005          | 0.042 | 84       | 0.050            |
| Hexachlorobenzene        | 0.130        | <0.020                   | <0.005          | 0.045 | 90       | 0.050            |
| Pentachlorophenol        | 100          | <0.020                   | <0.005          | 0.037 | 74       | 0.050            |

## % RECOVERY

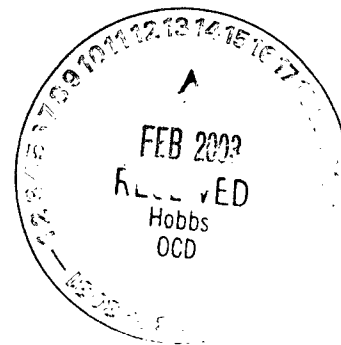
|                      |     |
|----------------------|-----|
| Fluorophenol         | 49  |
| Phenol-d5            | 34  |
| Nitrobenzene-d5      | 87  |
| 2-Fluorobiphenyl     | 65  |
| 2,4,6-Tribromophenol | 88  |
| Terphenyl-d14        | 114 |

METHODS: EPA SW-846 1311, 8270, 3510

  
Burgess J. A. Cooke, Ph. D.

Date

2/7/03



PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONOCO PHILLIPS  
ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 02/05/03  
Reporting Date: 02/07/03  
Project Number: NOT GIVEN  
Project Name: DESSICANT DRYER MATERIAL  
Project Location: MALJAMAR PLANT

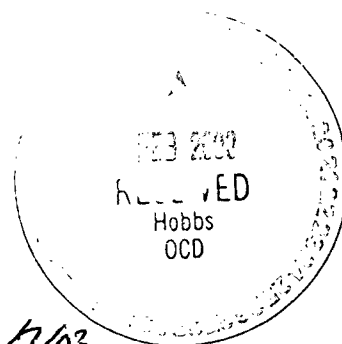
Sampling Date: 02/05/03  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: AH/BC

| LAB NO. SAMPLE ID           | REACTIVITY       |                  |                     |                      |
|-----------------------------|------------------|------------------|---------------------|----------------------|
|                             | Sulfide<br>(ppm) | Cyanide<br>(ppm) | CORROSIVITY<br>(pH) | IGNITABILITY<br>(°F) |
| ANALYSIS DATE:              | 02/06/03         | 02/06/03         | 02/07/03            | 02/07/03             |
| H7459-1 -                   | Not reactive     | Not reactive     | 6.37                | Nonflammable         |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
| Quality Control             | NR               | NR               | 7.03                | NR                   |
| True Value QC               | NR               | NR               | 7.00                | NR                   |
| % Recovery                  | NR               | NR               | 100                 | NR                   |
| Relative Percent Difference | NR               | NR               | 2.3                 | NR                   |

METHOD: EPA SW-846 7.3, 7.2, 1030 (proposed), 1311, 40 CFR 261

*Burgess J. Cooke*  
Chemist

2/7/03  
Date



PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONOCO PHILLIPS  
ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 02/05/03  
Reporting Date: 02/07/03  
Project Number: NOT GIVEN  
Project Name: DESSICANT DRYER MATERIAL  
Project Location: MALJAMAR PLANT  
Lab Number: H7459-1  
Sample ID: -

Analysis Date: 02/06/03  
Sampling Date: 02/05/03  
Sample Type: SOLID  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7459-1 | Method<br>Blank | QC    | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|-------|---------|------------------|
| Vinyl Chloride       | 0.20         | <0.005                   | <0.005          | 0.096 | 96      | 0.100            |
| 1,1-Dichloroethylene | 0.7          | <0.005                   | <0.005          | 0.116 | 116     | 0.100            |
| Methyl Ethyl Ketone  | 200          | <0.050                   | <0.050          | 0.111 | 111     | 0.100            |
| Chloroform           | 6.0          | <0.005                   | <0.005          | 0.106 | 106     | 0.100            |
| 1,2-Dichloroethane   | 0.5          | <0.005                   | <0.005          | 0.115 | 115     | 0.100            |
| Benzene              | 0.5          | <0.005                   | <0.005          | 0.106 | 106     | 0.100            |
| Carbon Tetrachloride | 0.5          | <0.005                   | <0.005          | 0.109 | 109     | 0.100            |
| Trichloroethylene    | 0.5          | <0.005                   | <0.005          | 0.111 | 111     | 0.100            |
| Tetrachloroethylene  | 0.7          | <0.005                   | <0.005          | 0.105 | 105     | 0.100            |
| Chlorobenzene        | 100          | <0.005                   | <0.005          | 0.102 | 102     | 0.100            |
| 1,4-Dichlorobenzene  | 7.5          | 0.009                    | <0.005          | 0.108 | 108     | 0.100            |

## % RECOVERY

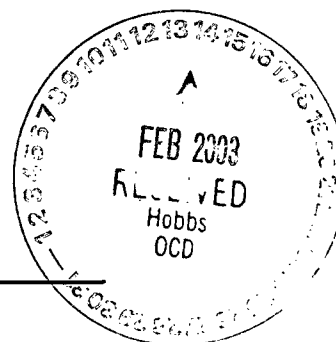
|                      |     |
|----------------------|-----|
| Dibromofluoromethane | 93  |
| Toluene-d8           | 100 |
| Bromofluorobenzene   | 99  |

METHODS: EPA SW 846-8260, 1311

*Burgess A. Cooke*  
Burgess A. Cooke, Ph. D.

Date

2/7/03



PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



**2111 Beechwood, Abilene, TX 79603 101 East Maryland, Hobbs, NM 88240**

**(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476**

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

hp officejet d135  
printer/fax/scanner/copier

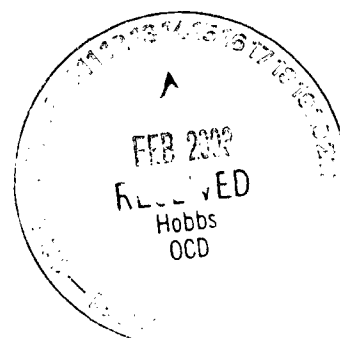
Fax-History Report for  
CRI  
5053933615  
Feb 12 2003 11:01am

---

**Last Transaction**

| <u>Date</u> | <u>Time</u> | <u>Type</u> | <u>Identification</u> | <u>Duration</u> | <u>Pages</u> | <u>Result</u> |
|-------------|-------------|-------------|-----------------------|-----------------|--------------|---------------|
| Feb 12      | 11:00am     | Received    |                       | 0:34            | 1            | OK            |

---



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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED  
FEB 18 2003  
Environmental Bureau  
Oil Conservation Division

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                  | 4. Generator Duke Energy Field Services             |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Originating Site Artesia Plant<br>Eddy County NM |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6. Transporter Gandy, Inc.                          |
| 7. Location of Material (Street Address or ULSTR) Artesia Plant, Artesia, NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8. State New Mexico                                 |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                     |

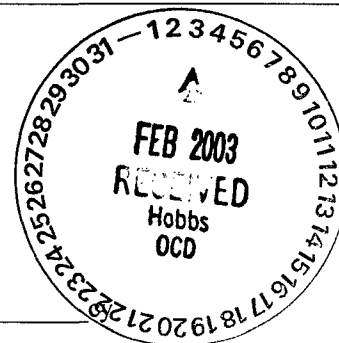
BRIEF DESCRIPTION OF MATERIAL:

RE: 02.03.03

Cooling Tower Sludge

Attached is Non-exempt Certificate of waste status, and Analytical results.

Estimated Volume 120 BBLS Known Volume (to be entered by the operator at the end of the haul)



SIGNATURE [Signature] TITLE: Bookkeeper DATE: 02-03-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Becky Strickland TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: [Signature] TITLE: Enviro Eng DATE: 2/16/03  
APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 2/17/03

1-506120

Jan 31 03 10:55a

p.2

CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Duke Energy Field Services  
ADDRESS P.O. Box 1170 Artesia N.M. 88211  
GENERATING SITE Artesia Plant  
COUNTY Eddy STATE N.M.  
TYPE OF WASTE Cooling Tower Sludge  
ESTIMATED VOLUME 120 BBLs  
GENERATING PROCESS Cleaning of Plant  
Cooling Tower  
REMARKS \_\_\_\_\_  
NMOCD FACILITY Controlled Recovery Inc  
TRUCKING COMPANY Gandy

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Shirley L. Pichon  
SIGNATURE

NAME KEVINETH WINN  
PRINTED

ADDRESS P.O. Box 1170

ARTESIA, NEW MEXICO 88211

DATE FEB 1, 2003



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603  
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
DUKE ENERGY FIELD SERVICES  
ATTN: KENNETH WINN  
P.O. BOX 1170  
ARTESIA, NM 88211  
FAX TO: (505) 397-5689

Receiving Date: 01/29/03  
Reporting Date: 01/31/03  
Project Number: NOT GIVEN  
Project Name: MARLEY TOWER SOUTH BAY  
Project Location: ARTESIA PLANT

Sampling Date: 01/29/03  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: AH/BC

| LAB NO.                     | SAMPLE ID | REACTIVITY       |                  |                     |                      |
|-----------------------------|-----------|------------------|------------------|---------------------|----------------------|
|                             |           | Sulfide<br>(ppm) | Cyanide<br>(ppm) | CORROSIVITY<br>(pH) | IGNITABILITY<br>(°F) |
| ANALYSIS DATE:              |           | 01/30/03         | 01/30/03         | 01/30/03            | 01/30/03             |
| H7435-1                     | -         | Not reactive     | Not reactive     | 7.30                | Nonflammable         |
|                             |           |                  |                  |                     |                      |
|                             |           |                  |                  |                     |                      |
|                             |           |                  |                  |                     |                      |
|                             |           |                  |                  |                     |                      |
|                             |           |                  |                  |                     |                      |
| Quality Control             |           | NR               | NR               | 6.80                | NR                   |
| True Value QC               |           | NR               | NR               | 7.00                | NR                   |
| % Recovery                  |           | NR               | NR               | 98.6                | NR                   |
| Relative Percent Difference |           | NR               | NR               | 0                   | NR                   |

METHOD: EPA SW-846 7.3, 7.2, 1030 (proposed), 1311, 40 CFR 261

Chemist

1/31/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or agents arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603  
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
DUKE ENERGY FIELD SERVICES  
ATTN: KENNETH WINN  
P.O. BOX 1170  
ARTESIA, NM 88211  
FAX TO: (505) 397-5689

Receiving Date: 01/29/03  
Reporting Date: 01/30/03  
Project Number: NOT GIVEN  
Project Name: MARLEY TOWER SOUTH BAY  
Project Location: ARTESIA, NM

Sampling Date: NOT GIVEN  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: AH

TCLP METALS

| LAB NO.                        | SAMPLE ID | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ANALYSIS DATE:                 |           | 01/30/03  | 01/30/03  | 01/30/03  | 01/30/03  | 01/30/03  | 01/30/03  | 01/30/03  | 01/30/03  |
| EPA LIMITS:                    |           | 5         | 5         | 100       | 1         | 5         | 5         | 0.2       | 1         |
| H7435-1                        |           | <1        | <1        | <5        | <0.1      | <1        | <1        | <0.02     | <0.1      |
|                                |           |           |           |           |           |           |           |           |           |
|                                |           |           |           |           |           |           |           |           |           |
|                                |           |           |           |           |           |           |           |           |           |
|                                |           |           |           |           |           |           |           |           |           |
|                                |           |           |           |           |           |           |           |           |           |
|                                |           |           |           |           |           |           |           |           |           |
| Quality Control                |           | 0.050     | 4.999     | 24.31     | 1.118     | 4.924     | 4.891     | 0.0100    | 0.153     |
| True Value QC                  |           | 0.050     | 5.000     | 25.00     | 1.000     | 5.000     | 5.000     | 0.0100    | 0.150     |
| % Recovery                     |           | 100       | 100       | 97.2      | 112       | 98.8      | 97.8      | 100.0     | 102       |
| Relative Standard Deviation    |           | 9.3       | 0.2       | 4.5       | 0.1       | 0.4       | 0.8       | 0.1       | 5.5       |
| METHODS: EPA 1311, 600/4-91/01 |           | 206.2     | 272.1     | 208.1     | 213.1     | 218.1     | 239.1     | 245.1     | 270.2     |

Chemist

1-30-03  
Date

H7435

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





**ARDINAL LABORATORIES, INC.**

2111 Beechwood, Athens, TX 79603 (915) 673-7001 Fax (915) 673-7020  
101 East Marland, Hobbs, NM 88240 (505) 393-2328 Fax (505) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1[illegible]

↑ Cardinal cannot accept verbal changes. Please fax written changes to 605-305-2478



PHONE (915) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603  
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
DUKE ENERGY FIELD SERVICES  
ATTN: KENNETH WINN  
P.O. BOX 1170  
ARTESIA, NM 88211  
FAX TO: (505) 397-5689

Receiving Date: 01/29/03  
Reporting Date: 01/31/03  
Project Number: NOT GIVEN  
Project Name: MARLEY TOWER SOUTH BAY  
Project Location: ARTESIA PLANT  
Lab Number: H7435-1  
Sample ID: -

Analysis Date: 01/30/03  
Sampling Date: 01/29/03  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7435-1 | Method<br>Blank | QC    | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|-------|---------|------------------|
| Vinyl Chloride       | 0.20         | <0.005                   | <0.005          | 0.098 | 98      | 0.100            |
| 1,1-Dichloroethylene | 0.7          | <0.005                   | <0.005          | 0.118 | 118     | 0.100            |
| Methyl Ethyl Ketone  | 200          | <0.050                   | <0.050          | 0.111 | 111     | 0.100            |
| Chloroform           | 8.0          | <0.005                   | <0.005          | 0.106 | 106     | 0.100            |
| 1,2-Dichloroethane   | 0.5          | <0.005                   | <0.005          | 0.115 | 115     | 0.100            |
| Benzene              | 0.5          | <0.005                   | <0.005          | 0.106 | 106     | 0.100            |
| Carbon Tetrachloride | 0.5          | <0.005                   | <0.005          | 0.109 | 109     | 0.100            |
| Trichloroethylene    | 0.6          | <0.005                   | <0.005          | 0.111 | 111     | 0.100            |
| Tetrachloroethylene  | 0.7          | <0.005                   | <0.005          | 0.105 | 105     | 0.100            |
| Chlorobenzene        | 100          | <0.005                   | <0.005          | 0.102 | 102     | 0.100            |
| 1,4-Dichlorobenzene  | 7.5          | <0.005                   | <0.005          | 0.108 | 108     | 0.100            |

% RECOVERY

|                      |     |
|----------------------|-----|
| Dibromofluoromethane | 97  |
| Toluene-d8           | 100 |
| Bromofluorobenzene   | 94  |

METHODS: EPA SW 846-8260, 1311

  
Burgess A. Cooke, Ph. D.

1/31/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within sixty (60) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 575-7001 • 2111 BEECHWOOD • ABILENE, TX 79803  
PHONE (505) 393-2325 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
DUKE ENERGY FIELD SERVICES  
ATTN: KENNETH WINN  
P.O. BOX 1170  
ARTESIA, NM 88211  
FAX TO: (505) 397-5889

Receiving Date: 01/29/03  
Reporting Date: 01/31/03  
Project Number: NOT GIVEN  
Project Name: MARLEY TOWER SOUTH BAY  
Project Location: ARTESIA PLANT  
Lab Number: H7435-1  
Sample ID: -

Analysis Date: 01/30/03  
Sampling Date: 01/29/03  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

| TCLP SEMIVOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7435-1 | Method<br>Blank | QC    | % Recov. | True Value<br>QC |
|--------------------------|--------------|--------------------------|-----------------|-------|----------|------------------|
| Pyridine                 | 5.00         | <0.020                   | <0.005          | 0.021 | 42       | 0.050            |
| 1,4-Dichlorobenzene      | 7.50         | <0.020                   | <0.005          | 0.029 | 58       | 0.050            |
| o-Cresol                 | 200          | <0.020                   | <0.005          | 0.044 | 88       | 0.050            |
| m, p-Cresol              | 200          | <0.020                   | <0.005          | 0.038 | 76       | 0.050            |
| Hexachloroethane         | 3.00         | <0.020                   | <0.005          | 0.027 | 54       | 0.050            |
| Nitrobenzene             | 2.00         | <0.020                   | <0.005          | 0.044 | 88       | 0.050            |
| Hexachloro-1,3-butadiene | 0.500        | <0.020                   | <0.005          | 0.033 | 66       | 0.050            |
| 2,4,6-Trichlorophenol    | 2.00         | <0.020                   | <0.005          | 0.041 | 82       | 0.050            |
| 2,4,5-Trichlorophenol    | 400          | <0.020                   | <0.005          | 0.048 | 96       | 0.050            |
| 2,4-Dinitrotoluene       | 0.130        | <0.020                   | <0.005          | 0.042 | 84       | 0.050            |
| Hexachlorobenzene        | 0.130        | <0.020                   | <0.005          | 0.045 | 90       | 0.050            |
| Pentachlorophenol        | 100          | <0.020                   | <0.005          | 0.037 | 74       | 0.050            |

% RECOVERY

|                      |    |
|----------------------|----|
| Fluorophenol         | 51 |
| Phenol-d5            | 35 |
| Nitrobenzene-d5      | 63 |
| 2-Fluorobiphenyl     | 69 |
| 2,4,6-Tribromophenol | 94 |
| Terphenyl-d14        | 84 |

METHODS: EPA SW-846 1311, 8270, 3510  
MI - Matrix Interference

Burgess J.A. Cooke, Ph. D.

1/31/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. Allocations, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profit incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

FER 18 2003  
Environmental Bureau  
Oil Conservation Division

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                  | 4. Generator Keystone Plant Services<br>2606 E Pearl St, Odessa, TX<br>5. Originating Site 2606 E. Pearl St. Odessa, TX |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6. Transporter Keystone Plant Services                                                                                  |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8. State New Mexico                                                                                                     |
| 7. Location of Material (Street Address or ULSTR) 2606 E. Pearl St. Odessa, TX                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                         |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                                                                                         |

BRIEF DESCRIPTION OF MATERIAL:

RE: 01-07-03

Various filters picked up from compressor station including amine, glycol & engine filters, drained & crushed.

Attached is a non exempt waste status & analytical results.

Estimated Volume 60 yards cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE [Signature] TITLE: Bookkeeper DATE: 1-29-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Becky Strickland TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: [Signature] TITLE: Enviro Eng DATE: 2/1/03

APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 2/17/03

4-396120

CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Keystone Plant Services

ADDRESS 2606 East Pearl Street

GENERATING SITE 2606 East Pearl Street

COUNTY Ector STATE Tx.

TYPE OF WASTE Used filters

ESTIMATED VOLUME 60 yds

GENERATING PROCESS Filters picked up from Compressor  
Stations

REMARKS \_\_\_\_\_

NMOCD FACILITY CRI

TRUCKING COMPANY Keystone Plant Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Brian Rodgers  
SIGNATURE

NAME Brian Rodgers  
PRINTED

ADDRESS 2606 East Pearl  
Street

DATE 01/31/03

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****Test Parameters**

Order#: G0305454

|                    |       |            |                     |                    |                   |                     |      |
|--------------------|-------|------------|---------------------|--------------------|-------------------|---------------------|------|
| <b>BLANK</b>       | SOLID | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |       | 0004375-01 |                     |                    | < 0.00050         |                     |      |
| <b>MS</b>          | SOLID | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |       | 0305454-01 | 0                   | 0.001              | 0.00104           | 104.0%              |      |
| <b>MSD</b>         | SOLID | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |       | 0305454-01 | 0                   | 0.001              | 0.00102           | 102.0%              | 1.9% |
| <b>SRM</b>         | SOLID | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Mercury, TCLP-mg/L |       | 0004375-04 |                     | 0.001              | 0.00099           | 99.0%               |      |

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****METALS RCRA 7 TCLP**

Order#: G0305454

| <b>BLANK</b>       | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
|--------------------|-------|------------|------------------|-----------------|----------------|------------------|------|
| Arsenic-mg/L       |       | 0004377-02 |                  |                 | <0.008         |                  |      |
| Barium-mg/L        |       | 0004377-02 |                  |                 | <0.001         |                  |      |
| Cadmium-mg/L       |       | 0004377-02 |                  |                 | <0.001         |                  |      |
| Chromium-mg/L      |       | 0004377-02 |                  |                 | <0.002         |                  |      |
| Lead-mg/L          |       | 0004377-02 |                  |                 | <0.011         |                  |      |
| Selenium-mg/L      |       | 0004377-02 |                  |                 | <0.004         |                  |      |
| Silver-mg/L        |       | 0004377-02 |                  |                 | <0.002         |                  |      |
| <b>CONTROL</b>     | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |       | 0004377-03 |                  | 0.8             | 0.797          | 99.6%            |      |
| Barium-mg/L        |       | 0004377-03 |                  | 0.2             | 0.179          | 89.5%            |      |
| Cadmium-mg/L       |       | 0004377-03 |                  | 0.2             | 0.176          | 88.8%            |      |
| Chromium-mg/L      |       | 0004377-03 |                  | 0.2             | 0.18           | 90.0%            |      |
| Lead-mg/L          |       | 0004377-03 |                  | 1               | 0.97           | 97.0%            |      |
| Selenium-mg/L      |       | 0004377-03 |                  | 0.4             | 0.385          | 96.3%            |      |
| Silver-mg/L        |       | 0004377-03 |                  | 0.1             | 0.105          | 105.0%           |      |
| <b>CONTROL DUP</b> | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |       | 0004377-04 |                  | 0.8             | 0.755          | 94.4%            | 5.4% |
| Barium-mg/L        |       | 0004377-04 |                  | 0.2             | 0.164          | 82.0%            | 8.7% |
| Cadmium-mg/L       |       | 0004377-04 |                  | 0.2             | 0.167          | 83.5%            | 5.2% |
| Chromium-mg/L      |       | 0004377-04 |                  | 0.2             | 0.172          | 86.0%            | 4.5% |
| Lead-mg/L          |       | 0004377-04 |                  | 1               | 0.92           | 92.0%            | 5.3% |
| Selenium-mg/L      |       | 0004377-04 |                  | 0.4             | 0.353          | 88.2%            | 8.7% |
| Silver-mg/L        |       | 0004377-04 |                  | 0.1             | 0.108          | 108.0%           | 2.8% |
| <b>SRM</b>         | SOLID | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD  |
| Arsenic-mg/L       |       | 0004377-05 |                  | 1               | 0.953          | 95.3%            |      |
| Barium-mg/L        |       | 0004377-05 |                  | 1               | 0.946          | 94.6%            |      |
| Cadmium-mg/L       |       | 0004377-05 |                  | 1               | 0.94           | 94.0%            |      |
| Chromium-mg/L      |       | 0004377-05 |                  | 1               | 0.969          | 96.9%            |      |
| Lead-mg/L          |       | 0004377-05 |                  | 1               | 0.961          | 96.1%            |      |
| Selenium-mg/L      |       | 0004377-05 |                  | 1               | 0.956          | 95.6%            |      |
| Silver-mg/L        |       | 0004377-05 |                  | 0.5             | 0.477          | 95.4%            |      |

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

GAYLON RODGERS  
KEYSTONE PLANT SERVICE  
2606 EAST PEARL  
ODESSA, TX 79761

Order#: G0305454  
Project: None Given  
Project Name: CRI Project  
Location: None Given

Lab ID: 0305454-01  
Sample ID: Filter

### METALS RCRA 7 TCLP

| Parameter | Result | Units | Dilution<br>Factor | RL    | Method     | Date<br>Prepared | Date<br>Analyzed | Analyst |
|-----------|--------|-------|--------------------|-------|------------|------------------|------------------|---------|
| Arsenic   | 0.027  | mg/L  | 1                  | 0.008 | 1311/6010B | 01/16/2003       | 1/17/03          | SM      |
| Barium    | 0.243  | mg/L  | 1                  | 0.001 | 1311/6010B | 01/16/2003       | 1/17/03          | SM      |
| Cadmium   | <0.001 | mg/L  | 1                  | 0.001 | 1311/6010B | 01/16/2003       | 1/17/03          | SM      |
| Chromium  | <0.002 | mg/L  | 1                  | 0.002 | 1311/6010B | 01/16/2003       | 1/17/03          | SM      |
| Lead      | <0.011 | mg/L  | 1                  | 0.011 | 1311/6010B | 01/16/2003       | 1/17/03          | SM      |
| Selenium  | <0.004 | mg/L  | 1                  | 0.004 | 1311/6010B | 01/16/2003       | 1/17/03          | SM      |
| Silver    | 0.008  | mg/L  | 1                  | 0.002 | 1311/6010B | 01/16/2003       | 1/17/03          | SM      |

### Test Parameters

| Parameter     | Result   | Units | Dilution<br>Factor | RL      | Method | Date<br>Prepared | Date<br>Analyzed | Analyst |
|---------------|----------|-------|--------------------|---------|--------|------------------|------------------|---------|
| Mercury, TCLP | <0.00050 | mg/L  | 1                  | 0.00050 | 7470   | 01/16/2003       | 1/17/03          | SM      |

Approval:

Raland K. Tuttle, Lab Director, QA Officer

Date

Cecely D. Keene, Org. Tech. Director

Jeanne McMurrey, Inorg. Tech. Director

Sandra Biezugbe, Lab Tech.

Sara Molina, Lab Tech.

N/A = Not Applicable RL = Reporting Limit

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800



---

## ENVIRONMENTAL LAB OF TEXAS

### SAMPLE WORK LIST

KEYSTONE PLANT SERVICE  
2606 EAST PEARL  
ODESSA, TX 79761  
580-5903

Order#: G0305454  
Project: None Given  
Project Name: CRI Project  
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

| <u>Lab ID:</u>      | <u>Sample :</u> | <u>Matrix:</u> | <u>Date / Time</u><br><u>Collected</u> | <u>Date / Time</u><br><u>Received</u> | <u>Container</u> | <u>Preservative</u> |
|---------------------|-----------------|----------------|----------------------------------------|---------------------------------------|------------------|---------------------|
| 0305454-01          | Filter          | SOLID          | 1/14/03<br>11:30                       | 1/14/03<br>14:20                      | 8 oz Glass       | None                |
| <u>Lab Testing:</u> |                 | Rejected: No   | Temp: 25 C                             |                                       |                  |                     |
| METALS RCRA 7 TCLP  |                 |                |                                        |                                       |                  |                     |
| Mercury, TCLP       |                 |                |                                        |                                       |                  |                     |

---

# Environmental Lab of Texas I, Ltd.

12600 West I-20 East  
Odessa, Texas 79763

Phone: 915-563-1800  
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

GAYLON RODRIGUES

Project Name:

CRI PROJECT

Company Name

KEYSTONE

Project #:

Company Address:

2606 E. PEARL

Project Loc:

City/State/Zip:

ODESSA, TX 79761

PO #:

Telephone No:

Fax No:

Sampler Signature:

Chas Davis

(lab use only)  
ORDER #:

Preservative

Matrix

(FILTER)

Analyze For:

TCLP  
TOTAL

☒

0305454

FIELD CODE

01

FILTER

Date Sampled

1/14/03

Time Sampled

11:30

No. of Containers

1

Ice

HNO<sub>3</sub>

HCl

NaOH

H<sub>2</sub>SO<sub>4</sub>

None

Other (Specify)

X

Water

Sludge

Soil

Other (specify):

X

SOLID

TPH: 418.1 8015M 1005 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

X

Volatiles

Semivolatiles

BTEX 8021B/5030

RCI

RUSH TAT (Pre-Schedule

Standard TAT

Special Instructions:

Relinquished by:

Relinquished by:

Chas Davis

Date

Time

Received by:

Received by ELOI:

Date

Time

Sample Containers Intact?  
Temperature Upon Receipt:  
Laboratory Comments:

Y  
N

25 C 802 GASS

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED  
FFR 18 2003  
Environmental Bureau  
Oil Conservation Division

Form C-138  
Revised March 17, 1999  
Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                         | 4. Generator Dowell Schlumberger <input checked="" type="checkbox"/>     |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5. Originating Site Artesia Facility <input checked="" type="checkbox"/> |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6. Transporter Waste Management                                          |
| 7. Location of Material (Street Address or ULSTR) 507 E Richey, Artesia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8. State New Mexico                                                      |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept <u>non-exempt</u> wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                                          |

BRIEF DESCRIPTION OF MATERIAL:

RE: 01-04-03

Wash bay sludge generated from the washing of trucks. ☒

Enclosed is certificate of waste status, analytical data, and chain of custody to approve this waste stream for the year 2003.

Estimated Volume 10 yards per month cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Becky Strickland TITLE: Bookkeeper DATE: 1-28-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Becky Strickland TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: John Johnson TITLE: Enviro Eng DATE: 2/7/03  
APPROVED BY: Monty J. [Signature] TITLE: Environmental Geologist DATE: 1/30/03  
DATE: 2/17/03

621703-4  
Held for  
RCI copy

**CERTIFICATE OF WASTE STATUS**  
**NON-EXEMPT WASTE MATERIAL**  
**"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Dowell Schlumberger

ADDRESS 507 E. Richey

GENERATING SITE Artesia

COUNTY Eddy STATE NM

TYPE OF WASTE wash bay sludge

ESTIMATED VOLUME 10 yds per month

GENERATING PROCESS washing exterior of  
trucks

REMARKS \_\_\_\_\_

NMOCD FACILITY CMI

TRUCKING COMPANY waste management

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Darwin Thompson  
SIGNATURE

NAME Darwin Thompson  
PRINTED

ADDRESS PO Box 300

Artesia, NM 88210

DATE 1-27-03



PHONE (915) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603  
 PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

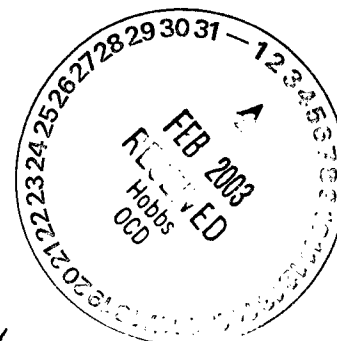
ANALYTICAL RESULTS FOR  
 SCHLUMBERGER  
 ATTN: DARWIN THOMPSON  
 P.O. BOX 300  
 ARTESIA, NM 88210  
 FAX TO:

Receiving Date: 11/22/02  
 Reporting Date: 12/02/02  
 Project Number: NOT GIVEN  
 Project Name: NOT GIVEN  
 Project Location: ARTESIA, NM

Sampling Date: 11/22/02  
 Sample Type: LIQUID  
 Sample Condition: COOL & INTACT  
 Sample Received By: BC  
 Analyzed By: AH/BC

| LAB NO. SAMPLE ID           | REACTIVITY       |                  |                     |                      |
|-----------------------------|------------------|------------------|---------------------|----------------------|
|                             | Sulfide<br>(ppm) | Cyanide<br>(ppm) | CORROSIVITY<br>(pH) | IGNITABILITY<br>(°F) |
| ANALYSIS DATE:              | 11/25/02         | 11/25/02         | 11/25/02            | 11/27/02             |
| H7245-1 WASH BAY WATER      | Not reactive     | Not reactive     | 6.84                | >140                 |
| H7245-3 PARTS SOLVENT       | Not reactive     | Not reactive     | 6.56                | >140                 |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
|                             |                  |                  |                     |                      |
| Quality Control             | NR               | NR               | 7.01                | NR                   |
| True Value QC               | NR               | NR               | 7.00                | NR                   |
| % Recovery                  | NR               | NR               | 100                 | NR                   |
| Relative Percent Difference | NR               | NR               | 0.3                 | NR                   |

METHOD: EPA SW-846 7.3, 7.2, 1010, 1311, 40 CFR 261



*Benzon J. A. Cochrane*  
 Chemist

12/2/02  
 Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

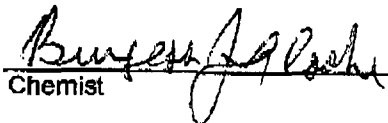
ANALYTICAL RESULTS FOR  
SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO:

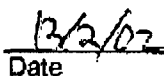
Receiving Date: 11/22/02  
Reporting Date: 12/02/02  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: ARTESIA, NM

Analysis Date: 11/27/02  
Sampling Date: 11/22/02  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC

| LAB NUMBER                  | SAMPLE ID              | TPH<br>(mg/Kg)    |
|-----------------------------|------------------------|-------------------|
| H7245-2                     | WASH BAY MUD           | 15500             |
| <del>H7245-4</del>          | <del>FLOOR SWEEP</del> | <del>148800</del> |
|                             |                        |                   |
|                             |                        |                   |
|                             |                        |                   |
|                             |                        |                   |
| Quality Control             |                        | 242               |
| True Value QC               |                        | 240               |
| % Recovery                  |                        | 101               |
| Relative Percent Difference |                        | 9.2               |

METHOD: EPA 418.1

  
Chemist

  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable services. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or subcontractors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO:

Receiving Date: 11/22/02  
Reporting Date: 11/27/02  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: ARTESIA, NM  
Lab Number: H7245-2  
Sample ID: WASH BAY MUD

Analysis Date: 11/25/02  
Sampling Date: 11/22/02  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7245-2 | Method<br>Blank | QC    | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|-------|---------|------------------|
| Vinyl Chloride       | 0.20         | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| 1,1-Dichloroethylene | 0.7          | <0.005                   | <0.005          | 0.092 | 92      | 0.100            |
| Methyl Ethyl Ketone  | 200          | <0.050                   | <0.050          | 0.106 | 106     | 0.100            |
| Chloroform           | 6.0          | <0.005                   | <0.005          | 0.098 | 98      | 0.100            |
| 1,2-Dichloroethane   | 0.5          | <0.005                   | <0.005          | 0.083 | 83      | 0.100            |
| Benzene              | 0.5          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| Carbon Tetrachloride | 0.5          | <0.005                   | <0.005          | 0.089 | 89      | 0.100            |
| Trichloroethylene    | 0.5          | <0.005                   | <0.005          | 0.095 | 95      | 0.100            |
| Tetrachloroethylene  | 0.7          | <0.005                   | <0.005          | 0.090 | 90      | 0.100            |
| Chlorobenzene        | 100          | <0.005                   | <0.005          | 0.093 | 93      | 0.100            |
| 1,4-Dichlorobenzene  | 7.5          | 0.007                    | <0.005          | 0.097 | 97      | 0.100            |

## % RECOVERY

|                      |        |
|----------------------|--------|
| Dibromofluoromethane | 77(MI) |
| Toluene-d8           | 87     |
| Bromofluorobenzene   | 90     |

MI=Matrix Interference

METHODS: EPA SW 846-8260, 1311

*Burgess J. A. Cooke, Ph. D.*  
Burgess J. A. Cooke, Ph. D.

*11/27/02*  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO:

Receiving Date: 11/22/02  
Reporting Date: 12/02/02  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: ARTESIA, NM  
Lab Number: H7245-2  
Sample ID: WASH BAY MUD

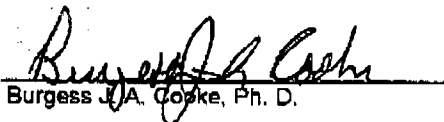
Analysis Date: 11/26/02  
Sampling Date: 11/22/02  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

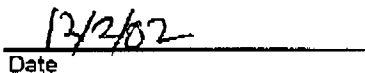
| TCLP SEMIVOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7245-2 | Method<br>Blank | QC    | % Recov. | True Value<br>QC |
|--------------------------|--------------|--------------------------|-----------------|-------|----------|------------------|
| Pyridine                 | 5.00         | <0.020                   | <0.005          | 0.017 | 34       | 0.050            |
| 1,4-Dichlorobenzene      | 7.50         | <0.020                   | <0.005          | 0.037 | 74       | 0.050            |
| o-Cresol                 | 200          | <0.020                   | <0.005          | 0.048 | 96       | 0.050            |
| m, p-Cresol              | 200          | <0.020                   | <0.005          | 0.048 | 96       | 0.050            |
| Hexachloroethane         | 3.00         | <0.020                   | <0.005          | 0.034 | 68       | 0.050            |
| Nitrobenzene             | 2.00         | <0.020                   | <0.005          | 0.046 | 92       | 0.050            |
| Hexachloro-1,3-butadiene | 0.500        | <0.020                   | <0.005          | 0.038 | 76       | 0.050            |
| 2,4,6-Trichlorophenol    | 2.00         | <0.020                   | <0.005          | 0.048 | 96       | 0.050            |
| 2,4,5-Trichlorophenol    | 400          | <0.020                   | <0.005          | 0.048 | 96       | 0.050            |
| 2,4-Dinitrotoluene       | 0.130        | <0.020                   | <0.005          | 0.046 | 92       | 0.050            |
| Hexachlorobenzene        | 0.130        | <0.020                   | <0.005          | 0.053 | 106      | 0.050            |
| Pentachlorophenol        | 100          | <0.020                   | <0.005          | 0.048 | 96       | 0.050            |

## % RECOVERY

|                      |     |
|----------------------|-----|
| Fluorophenol         | 43  |
| Phenol-d5            | 36  |
| Nitrobenzene-d5      | 84  |
| 2-Fluorobiphenyl     | 69  |
| 2,4,6-Tribromophenol | 101 |
| Terphenyl-d14        | 81  |

METHODS: EPA SW-846 1311, 8270, 3510

  
Burgess J.A. Cooke, Ph. D.

  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(916) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

|                                      |  |                                    |  |                |  |                         |  |
|--------------------------------------|--|------------------------------------|--|----------------|--|-------------------------|--|
| Company Name: <b>Schlumberger</b>    |  | P.O. #:                            |  | <b>BILL TO</b> |  | <b>ANALYSIS REQUEST</b> |  |
| Project Manager: <b>Dan Thompson</b> |  | Company:                           |  |                |  |                         |  |
| Address: <b>PO Box 300</b>           |  | Attn:                              |  |                |  |                         |  |
| City: <b>Artesia</b>                 |  | State: <b>CA</b> Zip: <b>90210</b> |  |                |  |                         |  |
| Phone #: _____                       |  | Fax #: <b>7482133</b>              |  |                |  |                         |  |
| Project #: _____                     |  | Project Owner:                     |  |                |  |                         |  |
| Project Name: _____                  |  | City:                              |  |                |  |                         |  |
| Project Location: <b>ARTESIA, CA</b> |  | State: _____ Zip: _____            |  |                |  |                         |  |
| Sampler Name: _____                  |  | Phone #: _____                     |  |                |  |                         |  |
| FOR LAB USE ONLY                     |  | Fax #: _____                       |  |                |  |                         |  |

| Lab I.D. | Sample I.D.    | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |           |        |        |            | DATE | TIME  | TCLP complete | ACI | FOG, COD | TPH |            |
|----------|----------------|-------------------|--------------|-------------|------------|------|-----------|--------|--------|------------|------|-------|---------------|-----|----------|-----|------------|
|          |                |                   |              | GROUNDWATER | WASTEWATER | SOIL | CRUDE OIL | SLUDGE | OTHER: | ACID/BASE: |      |       |               |     |          |     | ICE / COOL |
| A7245-1  | wash bay water |                   | 2            |             |            |      |           |        |        |            |      | 10:32 |               |     |          |     |            |
| -2       | wash bay mud   |                   | 1            |             |            |      |           |        |        |            |      |       |               |     |          |     |            |
| -3       | parts solvent  |                   | 1            |             |            |      |           |        |        |            |      |       |               |     |          |     |            |
| -4       | floor drag     |                   | 1            |             |            |      |           |        |        |            |      |       |               |     |          |     |            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| PLEASE NOTE: Liability and Damages. Customer liability and damage coverage is provided for any data being submitted based on contract or bill, shall be limited to the amount paid by the client for the analysis. All data, including those for negligence and any other cause whatsoever shall be deemed reliable unless made in writing and received by Client within 30 days after completion of the applicable service. (In no event shall Confidential be held for retention or consequential damages, liability without limitation, business interruptions, loss of use, or loss of profits, incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder for Client, regardless of whether such claim is based upon any of the above stated reasons or otherwise. |                                                                                                                                               |
| Sampler Relinquished By: <b>Dan Thompson</b><br>Date: <b>11/20/08</b><br>Time: <b>10:00</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Received By: _____<br>Date: _____<br>Time: _____                                                                                              |
| Relinquished By: _____<br>Date: _____<br>Time: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Received By: (Lab Staff) _____<br>Date: _____<br>Time: _____                                                                                  |
| Delivered By: (Circle One)<br>Sample - UPS - Bus - Other: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sample Condition<br>Cool <input type="checkbox"/> Impact <input type="checkbox"/><br>YES <input type="checkbox"/> NO <input type="checkbox"/> |
| CHECKED BY: _____ (Initials)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                               |
| REMARKS: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                               |

Terms and Conditions: Material will be shipped out all accurate mass from 30 days past date of the date of 24% per annum from the original date of the date, and all costs of collection, including attorney's fees.

**For additional information, contact the publisher at 505-393-7716.**



# ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO: (505) 748-2133

Receiving Date: 11/22/02  
Reporting Date: 11/27/02  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: ARTESIA, NM

Sampling Date: 11/22/02  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: AH

## TCLP METALS

| LAB NO. | SAMPLE ID | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

|                              |                  |                  |                  |                    |                  |                  |                     |                    |
|------------------------------|------------------|------------------|------------------|--------------------|------------------|------------------|---------------------|--------------------|
| ANALYSIS DATE:               | 11/26/02         | 11/27/02         | 11/27/02         | 11/27/02           | 11/27/02         | 11/27/02         | 11/27/02            | 11/26/02           |
| EPA LIMITS:                  | 5                | 5                | 100              | 1                  | 5                | 5                | 0.2                 | 1                  |
| H7245-2 WASHBAY MUD          | <1               | <1               | <5               | <0.2               | <1               | <1               | <0.02               | <0.1               |
| <del>H7245-4 FLOOR DRY</del> | <del>&lt;1</del> | <del>&lt;1</del> | <del>&lt;5</del> | <del>&lt;0.2</del> | <del>&lt;1</del> | <del>&lt;1</del> | <del>&lt;0.02</del> | <del>&lt;0.1</del> |
|                              |                  |                  |                  |                    |                  |                  |                     |                    |
|                              |                  |                  |                  |                    |                  |                  |                     |                    |
|                              |                  |                  |                  |                    |                  |                  |                     |                    |
|                              |                  |                  |                  |                    |                  |                  |                     |                    |
|                              |                  |                  |                  |                    |                  |                  |                     |                    |
|                              |                  |                  |                  |                    |                  |                  |                     |                    |
| Quality Control              | 0.053            | 4.785            | 21.52            | 1.012              | 4.956            | 4.921            | 0.0100              | 0.056              |
| True Value QC                | 0.050            | 5.000            | 25.00            | 1.000              | 5.000            | 5.000            | 0.0100              | 0.050              |
| % Recovery                   | 106              | 95.7             | 86.1             | 101                | 99.1             | 98.4             | 100                 | 112                |
| Relative Standard Deviation  | 1.3              | 0.3              | 1.7              | 0.5                | 0.7              | 1.1              | 0.1                 | 3.8                |

|                                |       |       |       |       |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| METHODS: EPA 1311, 800/4-91/01 | 206.2 | 272.1 | 208.1 | 213.1 | 218.1 | 239.1 | 245.1 | 270.2 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|

*Jimmy Hill*  
Chemist

*11-27-02*  
Date

H7245m

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable services. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client. Its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

FEB 18 2003  
Environmental Bureau  
Oil Conservation Division

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                          | 4. Generator Dowell Schlumberger   |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5. Originating Site Hobbs Facility |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6. Transporter Waste Management    |
| 7. Location of Material (Street Address or ULSTR) 1105 W Bender, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8. State New Mexico                |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept <u>non-exempt</u> wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                    |

BRIEF DESCRIPTION OF MATERIAL:

RE: 01-05-03

Wash bay sludge generated from the washing of trucks.

Enclosed is certificate of waste status, analytical data, and chain of custody to approve this waste stream for the year 2003. ✓

Estimated Volume 20 yards per month Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE

Waste Management Facility Authorized Agent

TITLE: Bookkeeper

DATE: 1-28-03

TYPE OR PRINT NAME: Becky Strickland

TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY:

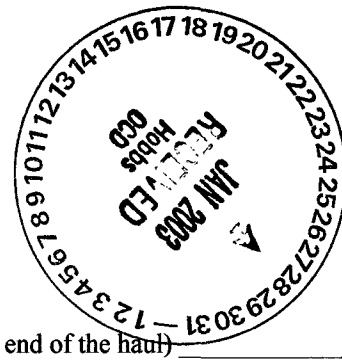
TITLE:

DATE:

APPROVED BY:

TITLE:

DATE:



5-304120

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY/GENERATOR Dowell Schlumberger

ADDRESS 1105 W. Bender,

GENERATING SITE Hobbs, New Mexico

COUNTY Lea STATE NM

TYPE OF WASTE wash bay sludge

ESTIMATED VOLUME 20 yds. per month

GENERATING PROCESS washing exterior of  
trucks

REMARKS \_\_\_\_\_

NMOCDFACILITY CAI

TRUCKING COMPANY waste management

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Darwin Thompson  
SIGNATURE

NAME Darwin Thompson  
PRINTED

ADDRESS PO Box 300

Artesia, NM 88210

DATE 1-27-03


**ARDINAL**  
**LABORATORIES**

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

 ANALYTICAL RESULTS FOR  
 DOWELL SCHLUMBERGER  
 ATTN: DARWIN THOMPSON  
 P.O. BOX 300  
 ARTESIA, NM 88210  
 FAX TO: (505) 748-2133

 Receiving Date: 01/02/03  
 Reporting Date: 01/08/03  
 Project Number: NOT GIVEN  
 Project Name: NOT GIVEN  
 Project Location: HOBBS, NM

 Sampling Date: 12/31/02  
 Sample Type: SLUDGE  
 Sample Condition: COOL & INTACT  
 Sample Received By: AH  
 Analyzed By: AH

**TCLP METALS**

| LAB NO. | SAMPLE ID | As<br>ppm | Ag<br>ppm | Ba<br>ppm | Cd<br>ppm | Cr<br>ppm | Pb<br>ppm | Hg<br>ppm | Se<br>ppm |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

|                             |          |          |          |          |          |          |          |          |          |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| ANALYSIS DATE:              | 01/07/03 | 01/07/03 | 01/07/03 | 01/07/03 | 01/07/03 | 01/07/03 | 01/07/03 | 01/07/03 | 01/07/03 |
| EPA LIMITS:                 | 5        | 5        | 100      | 1        | 5        | 5        | 0.2      | 1        |          |
| H7363-1 WASHBAY SLUDGE      | <1       | <1       | <5       | <0.1     | <1       | <1       | <0.02    | <0.1     |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
|                             |          |          |          |          |          |          |          |          |          |
| Quality Control             | 0.138    | 4.903    | 23.79    | 0.527    | 4.957    | 5.014    | 0.0101   | 0.053    |          |
| True Value QC               | 0.150    | 5.000    | 25.00    | 0.500    | 5.000    | 5.000    | 0.0100   | 0.050    |          |
| % Recovery                  | 92.0     | 98.1     | 95.2     | 105      | 99.1     | 100      | 101      | 106      |          |
| Relative Standard Deviation | 4.3      | 0.4      | 3.9      | 0.2      | 0.2      | 1.8      | 0.1      | 2.0      |          |

|                                |       |       |       |       |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| METHODS: EPA 1311, 600/4-91/01 | 206.2 | 272.1 | 208.1 | 213.1 | 218.1 | 239.1 | 245.1 | 270.2 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|

*Amy Hill*  
 Chemist

1-8-03  
 Date

H7363

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, or third parties or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Sampling Date: 12/31/02  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: AH/BC

| Sulfide<br>(ppm) | Cyanide<br>(ppm) | CORROSIVITY<br>(pH) | IGNITABILITY<br>(°F) |
|------------------|------------------|---------------------|----------------------|
|                  |                  |                     |                      |

| ANALYSIS DATE:              | 01/07/03     | 01/07/03     | 01/07/03 | 01/07/03     |
|-----------------------------|--------------|--------------|----------|--------------|
| H7363-1 WASHBAY SLUDGE      | Not reactive | Not reactive | 8.23     | Nonflammable |
|                             |              |              |          |              |
|                             |              |              |          |              |
|                             |              |              |          |              |
|                             |              |              |          |              |
|                             |              |              |          |              |
|                             |              |              |          |              |
| Quality Control             | NR           | NR           | 6.96     | NR           |
| True Value QC               | NR           | NR           | 7.00     | NR           |
| % Recovery                  | NR           | NR           | 99.4     | NR           |
| Relative Percent Difference | NR           | NR           | 0        | NR           |

**METHOD:** EPA SW-846 7.3, 7.2, 1030 (proposed), 1311, 40 CFR 261

Date \_\_\_\_\_

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or other persons arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
DOWELL SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO: (505) 748-2133

Receiving Date: 01/02/03  
Reporting Date: 01/03/03  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: HOBBS YARD

Analysis Date: 01/02/03  
Sampling Date: 12/31/02  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

| LAB NUMBER                  | SAMPLE ID      | TPH<br>(mg/Kg) |
|-----------------------------|----------------|----------------|
| H7363-1                     | WASHBAY SLUDGE | 1080           |
|                             |                |                |
|                             |                |                |
|                             |                |                |
|                             |                |                |
|                             |                |                |
| Quality Control             |                | 245            |
| True Value QC               |                | 240            |
| % Recovery                  |                | 102            |
| Relative Percent Difference |                | 5.1            |

METHOD: EPA 418.1

Chemist

Date

1/8/03



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
DOWELL SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO: (505) 748-2133

Receiving Date: 01/02/03  
Reporting Date: 01/04/03  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: HOBBS YARD  
Lab Number: H7363-1  
Sample ID: WASHBAY SLUDGE

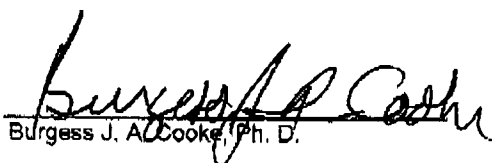
Analysis Date: 01/03/03  
Sampling Date: 12/31/02  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

| TCLP SEMIVOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7363-1 | Method<br>Blank | QC    | % Recov. | True Value<br>QC |
|--------------------------|--------------|--------------------------|-----------------|-------|----------|------------------|
| Pyridine                 | 5.00         | <0.020                   | <0.005          | 0.018 | 36       | 0.050            |
| 1,4-Dichlorobenzene      | 7.50         | <0.020                   | <0.005          | 0.029 | 58       | 0.050            |
| o-Cresol                 | 200          | <0.020                   | <0.005          | 0.038 | 76       | 0.050            |
| m, p-Cresol              | 200          | <0.020                   | <0.005          | 0.037 | 74       | 0.050            |
| Hexachloroethane         | 3.00         | <0.020                   | <0.005          | 0.027 | 54       | 0.050            |
| Nitrobenzene             | 2.00         | <0.020                   | <0.005          | 0.039 | 78       | 0.050            |
| Hexachloro-1,3-butadiene | 0.500        | <0.020                   | <0.005          | 0.035 | 70       | 0.050            |
| 2,4,6-Trichlorophenol    | 2.00         | <0.020                   | <0.005          | 0.047 | 94       | 0.050            |
| 2,4,5-Trichlorophenol    | 400          | <0.020                   | <0.005          | 0.048 | 96       | 0.050            |
| 2,4-Dinitrotoluene       | 0.130        | <0.020                   | <0.005          | 0.046 | 92       | 0.050            |
| Hexachlorobenzene        | 0.130        | <0.020                   | <0.005          | 0.047 | 94       | 0.050            |
| Pentachlorophenol        | 100          | <0.020                   | <0.005          | 0.047 | 94       | 0.050            |

## % RECOVERY

|                      |     |
|----------------------|-----|
| Fluorophenol         | 52  |
| Phenol-d5            | 36  |
| Nitrobenzene-d5      | 98  |
| 2-Fluorobiphenyl     | 87  |
| 2,4,6-Tribromophenol | 93  |
| Terphenyl-d14        | 112 |

METHODS: EPA SW-846 1311, 8270, 3510

  
Burgess J. Alcock, Ph. D.

Date

1/4/03

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 86240

ANALYTICAL RESULTS FOR  
DOWELL SCHLUMBERGER  
ATTN: DARWIN THOMPSON  
P.O. BOX 300  
ARTESIA, NM 88210  
FAX TO: (505) 748-2133

Receiving Date: 01/02/03  
Reporting Date: 01/04/03  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: HOBBS YARD  
Lab Number: H7363-1  
Sample ID: WASHBAY SLUDGE

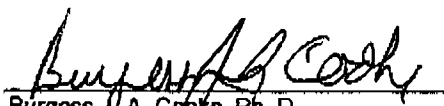
Analysis Date: 01/03/03  
Sampling Date: 12/31/02  
Sample Type: SLUDGE  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

| TCLP VOLATILES (ppm) | EPA<br>LIMIT | Sample Result<br>H7363-1 | Method<br>Blank | QC    | %Recov. | True Value<br>QC |
|----------------------|--------------|--------------------------|-----------------|-------|---------|------------------|
| Vinyl Chloride       | 0.20         | <0.005                   | <0.005          | 0.094 | 94      | 0.100            |
| 1,1-Dichloroethylene | 0.7          | <0.005                   | <0.005          | 0.105 | 105     | 0.100            |
| Methyl Ethyl Ketone  | 200          | <0.050                   | <0.050          | 0.096 | 96      | 0.100            |
| Chloroform           | 6.0          | 0.043                    | <0.005          | 0.109 | 109     | 0.100            |
| 1,2-Dichloroethane   | 0.5          | <0.005                   | <0.005          | 0.091 | 91      | 0.100            |
| Benzene              | 0.5          | <0.005                   | <0.005          | 0.100 | 100     | 0.100            |
| Carbon Tetrachloride | 0.5          | <0.005                   | <0.005          | 0.097 | 97      | 0.100            |
| Trichloroethylene    | 0.5          | <0.005                   | <0.005          | 0.105 | 105     | 0.100            |
| Tetrachloroethylene  | 0.7          | <0.005                   | <0.005          | 0.109 | 109     | 0.100            |
| Chlorobenzene        | 100          | <0.005                   | <0.005          | 0.105 | 105     | 0.100            |
| 1,4-Dichlorobenzene  | 7.5          | <0.005                   | <0.005          | 0.109 | 109     | 0.100            |

## % RECOVERY

|                      |     |
|----------------------|-----|
| Dibromofluoromethane | 106 |
| Toluene-d8           | 106 |
| Bromofluorobenzene   | 102 |

METHODS: EPA SW 846-8260, 1311

  
Burgess A. Cooke, Ph. D.

1/4/03  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. Claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(815) 673-7001 Fax (815) 673-7020 (505) 393-2326 Fax (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

**† Cardiorespiratory cannot accept very low changes. Please fax written changes to 915-673-7020**

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised March 17, 1999

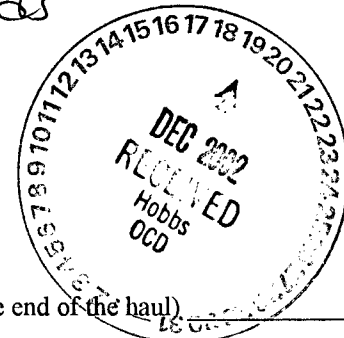
Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                  | 4. Generator <u>Key Energy Services</u>      |
| 2. Management Facility Destination <u>Controlled Recovery Inc.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5. Originating Site <u>Carlstad Facility</u> |
| 3. Address of Facility Operator <u>P.O. Box 388, Hobbs</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6. Transporter <u>Key</u>                    |
| 7. Location of Material (Street Address or ULSTR) <u>819 E Greene, Carlstad NM</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8. State <u>New Mexico</u>                   |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                              |

BRIEF DESCRIPTION OF MATERIAL:

12-18-02 (12-004)  
Additional testing on wash Bay fluids



Estimated Volume 1000 annually Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE David Parsons TITLE: VP DATE: 12-18-02  
Waste Management Facility Authorized Agent  
TYPE OR PRINT NAME: David Parsons TELEPHONE NO: 505-393-1079

(This space for State Use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
APPROVED BY: Monty G. J. Jr. TITLE: Environmental Geologist DATE: 1-10-03

Martynne

This is additional testing to original  
testing done & submitted to you 07-31-02.  
Please call if you have any questions.

Thanks!

David Pearson

checked 07-31-02  
hyh



*Infrastructure, buildings, environment, communications*

Mr. Royce Crowell  
Key Energy Services  
2625 Marland  
Hobbs, New Mexico 88241

ARCADIS G&M, Inc.  
1004 N. Big Spring Street  
Suite 300  
Midland Texas 79701  
Tel 915.687.5400  
Fax 915.687.5401  
[www.arcadis-us.com](http://www.arcadis-us.com)

ENVIRONMENTAL

Subject  
Water Sample Results  
Carlsbad, New Mexico

Dear Mr. Crowell:

ARCADIS G&M, Inc. (ARCADIS) was retained by Key Energy Services (Key) to resubmit a water sample for analysis from a truck washing sump at the site to characterize the wastewater in the sump for disposal. The Subject Property is located at 1604 Greene Street in Carlsbad, New Mexico.

The purpose of this investigation was to collect a water sample from a collection sump associated with truck washing activities conducted at the site to characterize the wastewater in the sump for disposal. One water sample was collected as part of the scope of this investigation.

## Method

The water sampling was conducted on October 21, 2002. One water sample was collected directly from the truck wash sump collection basin. Severn Trent Laboratories (STL) was contracted to perform the analysis of the sample.

The sample was collected in laboratory-supplied sample containers. The sampler used new disposable gloves to handle the sample containers and to prevent field contamination. A new disposable polyethylene bailer was used to collect water from sump. The sample containers were labeled with sample identification, the date and time, the type of analysis requested, the preservation method and the sampler's initials. The sample was immediately placed on ice in a laboratory provided cooler to maintain approximately 4°C prior to and during shipping to the laboratory. The samples were delivered under appropriate chain-of-custody procedures.

The samples collected from the sump were sent to STL Corpus Christi, Texas for the analysis of Toxicity Characteristic Leaching Procedure (TCLP) for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and for reactivity, corrosivity and ignitability (RCI).

Part of a bigger picture

Date:  
November 22, 2002

Contact:  
Brady Kolb

Phone:  
915-687-5400

Email:  
[bkolb@arcadis-us.com](mailto:bkolb@arcadis-us.com)

## Results

Analysis of the sample collected by ARCADIS did not identify any detectable levels of VOCs or SVOCs. The sample collected also has an ignitability of greater than 212°F, cyanide reactivity of less than 10.0 mg/L, sulfide reactivity of less than 50.0 mg/L. The corrosivity analysis showed the water to be slightly acidic with a reading of 6.7 standard pH units.

## Conclusions

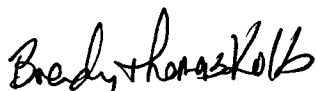
ARCADIS collected one water sample from the truck washing collection sump at the Carlsbad, New Mexico facility. The water sample was submitted to STL for analysis of TCLP VOCs, TCLP SVOCs, and RCI. The laboratory analysis did not identify any detectable levels of leachable contaminants, nor was the sample reactive or ignitable. However, the water showed slightly acidic characteristics with a pH result of 6.7 standard pH units. The laboratory analyses are included as an attachment for forwarding to Sundance Disposal in Eunice, New Mexico to receive authorization for receipt of the wastewater.

ARCADIS appreciates the opportunity to work with Key Energy Services on this project.

Sincerely,

Our ref:  
MT000763.0001

ARCADIS G&M, Inc.

  
Brady Thomas Kolb  
Scientist/Geologist

  
Steven P. Fischer  
Remediation Business Practice Manager

Attachment:  
Laboratory Analysis

Copies:  
Gene Butler

## ANALYTICAL REPORT

JOB NUMBER: 243138

Prepared For:

Arcadis G&M- Midland, TX  
1004 N. Big Spring Street  
Suite 300  
Midland, TX 79701

Attention: Steve Tischer

Date: 11/04/2002

RECEIVED

NOV 12 2002

ARCADIS Geraghty & Miller

Signature

Name: Agnes V. Vicknair

Title: Project Manager II

E-Mail: avicknair@stl-inc.com

Date

Severn Trent Laboratories  
6310 Rothway Drive  
Houston, TX 77040

PHONE: (713) 690-4444

SEVERN

TRENT

SERVICES

STL Houston

11/04/2002

Steve Tischer  
Arcadis G&M- Midland, TX  
1004 N. Big Spring Street  
Suite 300  
Midland, TX 79701

Reference:

Project : Carlsbad, NM  
Project No. : 243138  
Date Received : 10/24/2002  
STL Job : 243138

Dear Steve Tischer:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

1. CBNM SUMP
2. TRIP BLANK

All holding times were met for the tests performed on these samples.

Enclosed, please find the Quality Control Summary. All quality control results for the QC batch that are applicable to the sample(s) are acceptable except as noted in the QC batch reports.

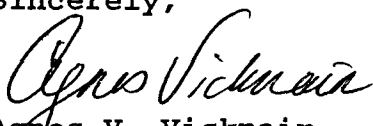
The test results in this report meet all NELAP requirements for STL Houston's NELAP accredited parameters. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Severn-Trent Laboratories to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

Sincerely,

  
Agnes V. Vicknair  
Project Manager



## SAMPLE INFORMATION

Date: 11/04/2002

Job Number.: 243138

Customer...: Arcadis G&M- Midland,TX

Attn.....: Steve Tischer

Project Number.....: 99003009

Customer Project ID....: CARLSBAD, NM

Project Description.....: Carlsbad, NM

| Laboratory<br>Sample ID | Customer<br>Sample ID | Sample<br>Matrix | Date<br>Sampled | Time<br>Sampled | Date<br>Received | Time<br>Received |
|-------------------------|-----------------------|------------------|-----------------|-----------------|------------------|------------------|
| 243138-1                | CBNM SUMP             | Water            | 10/21/2002      | 15:00           | 10/24/2002       | 09:21            |
| 243138-2                | TRIP BLANK            | Trip Blank       | 10/21/2002      | 00:00           | 10/24/2002       | 09:21            |

## LABORATORY TEST RESULTS

Job Number: 243138

Date: 11/04/2002

CUSTOMER: Arcadis G&amp;M- Midland, TX

PROJECT: CARLSBAD, NM

ATTN: Steve Tischer

Customer Sample ID: CBNM SUMP  
 Date Sampled.....: 10/21/2002  
 Time Sampled.....: 15:00  
 Sample Matrix.....: Water

Laboratory Sample ID: 243138-1  
 Date Received.....: 10/24/2002  
 Time Received.....: 09:21

| TEST METHOD  | PARAMETER/TEST DESCRIPTION                                                       | SAMPLE RESULT | FLAGS | REPORTING LIMIT | UNITS     | DATE     | TECH |
|--------------|----------------------------------------------------------------------------------|---------------|-------|-----------------|-----------|----------|------|
| SW-846 3510C | Extraction (Sep. Funnel) SVOC TCLP<br>Separatory Funnel Liq/Liq Extraction, TCLP | Complete      |       |                 |           | 10/29/02 | mra  |
| SW-846 8270C | Semivolatile Organics                                                            |               |       |                 |           |          |      |
|              | 2,4-Dinitrotoluene, TCLP                                                         | ND            |       | 25.0            | ug/L      | 10/30/02 | kri  |
|              | Hexachlorobenzene, TCLP                                                          | ND            |       | 25.0            | ug/L      | 10/30/02 | kri  |
|              | Hexachlorobutadiene, TCLP                                                        | ND            |       | 25.0            | ug/L      | 10/30/02 | kri  |
|              | Hexachloroethane, TCLP                                                           | ND            |       | 25.0            | ug/L      | 10/30/02 | kri  |
|              | Nitrobenzene, TCLP                                                               | ND            |       | 25.0            | ug/L      | 10/30/02 | kri  |
|              | 2-Methylphenol (o-Cresol), TCLP                                                  | ND            |       | 25.0            | ug/L      | 10/30/02 | kri  |
|              | 4-Methylphenol (p-Cresol), TCLP                                                  | ND            |       | 25.0            | ug/L      | 10/30/02 | kri  |
|              | Pentachlorophenol, TCLP                                                          | ND            |       | 125             | ug/L      | 10/30/02 | kri  |
|              | 2,4,5-Trichlorophenol, TCLP                                                      | ND            |       | 25.0            | ug/L      | 10/30/02 | kri  |
|              | 2,4,6-Trichlorophenol, TCLP                                                      | ND            |       | 25.0            | ug/L      | 10/30/02 | kri  |
|              | Pyridine, TCLP                                                                   | ND            |       | 50.0            | ug/L      | 10/30/02 | kri  |
| SW-846 8260B | Volatile Organics                                                                |               |       |                 |           |          |      |
|              | Benzene, TCLP                                                                    | ND            |       | 100             | ug/L      | 10/29/02 | yx1  |
|              | Carbon Tetrachloride, TCLP                                                       | ND            |       | 100             | ug/L      | 10/29/02 | yx1  |
|              | Chlorobenzene, TCLP                                                              | ND            |       | 100             | ug/L      | 10/29/02 | yx1  |
|              | Chloroform, TCLP                                                                 | ND            |       | 100             | ug/L      | 10/29/02 | yx1  |
|              | 1,4-Dichlorobenzene, TCLP                                                        | ND            |       | 100             | ug/L      | 10/29/02 | yx1  |
|              | 1,2-Dichloroethane, TCLP                                                         | ND            |       | 100             | ug/L      | 10/29/02 | yx1  |
|              | 1,1-Dichloroethene, TCLP                                                         | ND            |       | 100             | ug/L      | 10/29/02 | yx1  |
|              | Tetrachloroethene, TCLP                                                          | ND            |       | 100             | ug/L      | 10/29/02 | yx1  |
|              | Trichloroethene, TCLP                                                            | ND            |       | 100             | ug/L      | 10/29/02 | yx1  |
|              | Vinyl Chloride, TCLP                                                             | ND            |       | 200             | ug/L      | 10/29/02 | yx1  |
|              | Methyl Ethyl Ketone (2-Butanone), TCLP                                           | ND            |       | 200             | ug/L      | 10/29/02 | yx1  |
| SW-846 1010  | Ignitability (Flashpoint), Water                                                 | >212          |       |                 | degrees F | 10/31/02 | mam  |
| SW846 7.3    | Reactivity, Cyanide, Water                                                       | <10.0         |       | 10.0            | mg/L      | 11/01/02 | ras  |
| SW846 7.3    | Reactivity, Sulfide, Water                                                       | <50.0         |       | 50.0            | mg/L      | 11/01/02 | ras  |
| SW-846 9040B | Corrosivity (pH-Liquids), Water                                                  | 6.7           |       | 0.01            | pH Units  | 10/24/02 | slv  |
| SW-846 1311  | TCLP Semi-Volatiles Analysis, Water                                              | Complete      |       |                 |           | 10/29/02 | dcl  |
| SW-846 1311  | Zero Head Space (ZHE) Extraction, Water                                          | Complete      |       |                 |           | 10/29/02 | dcl  |

**QUALITY CONTROL RESULTS**

Job Number.: 243138

Report Date.: 11/04/2002

CUSTOMER: Arcadis G&M- Midland, TX

PROJECT: CARLSBAD, NM

ATTN: Steve Tischer

Test Method.....: SW-846 9040B

Method Description.: Corrosivity (pH-Liquids)

Parameter.....: Corrosivity (pH-Liquids)

Units.....: pH Units

Batch(s)....: 61378

Analyst....: slv

Test Code.: CORLIQ

| QC  | Lab ID   | Reagent | QC Result | QC Result | True Value | Orig. Value | Calc. Result * | Limits    | F | Date       | Time |
|-----|----------|---------|-----------|-----------|------------|-------------|----------------|-----------|---|------------|------|
| DU  | 242986-1 |         | 8.94      |           |            | 8.94        | 0.0            | 1         |   | 10/24/2002 | 0830 |
| DU  | 243057-1 |         | 3.47      |           |            | 3.47        | 0.0            | 1         |   | 10/24/2002 | 0830 |
| CCV |          | WC2364  | 7.04      |           | 7.0        |             | 100.6          | 99.0-101. |   | 10/24/2002 | 0830 |
| LCS |          | WC2364  | 7.04      |           | 7.0        |             | 100.6          | 99.0-101. |   | 10/24/2002 | 0830 |
| DU  | 243109-6 |         | 7.85      |           |            | 7.85        | 0.0            | 1         |   | 10/24/2002 | 0830 |
| CCV |          | WC2364  | 7.02      |           | 7.0        |             | 100.3          | 99.0-101. |   | 10/24/2002 | 0830 |
| CCV |          | WC2364  | 7.02      |           | 7.0        |             | 100.3          | 99.0-101. |   | 10/24/2002 | 0830 |
| DU  | 243121-9 |         | 8.18      |           |            | 8.16        | 0.2            | 1         |   | 10/24/2002 | 0830 |
| DU  | 243138-1 |         | 6.74      |           |            | 6.74        | 0.0            | 1         |   | 10/24/2002 | 0830 |

Test Method.....: SW-846 1010

Method Description.: Ignitability (Pensky-Martens Closed-Cup) Units.....: degrees F

Parameter.....: Ignitability (Flashpoint)

Batch(s)....: 61892

Analyst....: mam

Test Code.: IGNPMC

| QC  | Lab ID   | Reagent | QC Result | QC Result | True Value | Orig. Value | Calc. Result * | Limits    | F | Date       | Time |
|-----|----------|---------|-----------|-----------|------------|-------------|----------------|-----------|---|------------|------|
| DU  | 242833-1 |         | >212      |           |            | >212        | 0.0            | 10.0      |   | 10/31/2002 | 1130 |
| DU  | 242857-1 |         | >212      |           |            | >212        | 0.0            | 10.0      |   | 10/31/2002 | 1130 |
| LCS |          | WC2268  | 82        |           | 81         |             | 101.2          | 97.5-102. |   | 10/31/2002 | 1130 |
| CCV |          | WC2268  | 82        |           | 81         |             |                |           |   | 10/31/2002 | 1130 |

Test Method.....: SW846 7.3

Method Description.: Reactivity, Cyanide and Sulfide

Parameter.....: Reactivity, Cyanide

Units.....: mg/L

Batch(s)....: 61948

Analyst....: ras

Test Code.: REACCN

| QC  | Lab ID   | Reagent | QC Result | QC Result | True Value | Orig. Value | Calc. Result * | Limits    | F | Date       | Time |
|-----|----------|---------|-----------|-----------|------------|-------------|----------------|-----------|---|------------|------|
| MB  |          |         | 0         |           |            |             |                |           |   | 10/31/2002 | 0900 |
| LCS |          | WC2379A | 54.1      |           | 1000       |             | 5.4            | 0.00-200. |   | 10/31/2002 | 1025 |
| DU  | 242833-1 |         | 0         |           |            | 0           | 0              | 10        |   | 10/31/2002 | 1439 |
| MS  | 242833-1 | WC2379A | 45.1      |           | 1000       | 0           | 5              | 0-100     |   | 10/31/2002 | 1604 |
| DU  | 243138-1 |         | 0         |           |            | 0           | 0              | 10        |   | 11/01/2002 | 0321 |
| MS  | 243138-1 | WC2379A | 64.4      |           | 1000       | 0           | 6              | 0-100     |   | 11/01/2002 | 0446 |

Test Method.....: SW846 7.3

Method Description.: Reactivity, Cyanide and Sulfide

Parameter.....: Reactivity, Sulfide

Units.....: mg/L

Batch(s)....: 61948

Analyst....: ras

Test Code.: REACS

| QC  | Lab ID   | Reagent  | QC Result | QC Result | True Value | Orig. Value | Calc. Result * | Limits    | F | Date       | Time |
|-----|----------|----------|-----------|-----------|------------|-------------|----------------|-----------|---|------------|------|
| MB  |          |          | 0         |           |            |             |                |           |   | 10/31/2002 | 0900 |
| LCS |          | WCS24340 | 380       |           | 800        |             | 47.5           | 0.00-200. |   | 10/31/2002 | 1149 |
| DU  | 242833-1 |          | 0         |           |            | 0           | 0              | 50        |   | 10/31/2002 | 1439 |
| MS  | 242833-1 | WCS24340 | 600       |           | 800        | 0           | 75             | 0-100     |   | 10/31/2002 | 1728 |
| DU  | 243138-1 |          | 0         |           |            | 0           | 0              | 50        |   | 11/01/2002 | 0321 |
| MS  | 243138-1 | WCS24340 | 990       |           | 800        | 0           | 124            | 0-100     |   | 11/01/2002 | 0611 |

**QUALITY CONTROL RESULTS**

Job Number.: 243138

Report Date.: 11/04/2002

CUSTOMER: Arcadis G&M- Midland, TX

PROJECT: CARLSBAD, NM

ATTN: Steve Tischer

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|-------------|------------|--------|-----------------|------|------|
|---------|-------------|------------|--------|-----------------|------|------|

Test Method.....: SW-846 8270C

Units.....: ug/L

Analyst....: kri

Method Description.: Semivolatile Organics

Batch(s)....: 61790

|     |                           |            |       |  |            |      |
|-----|---------------------------|------------|-------|--|------------|------|
| LCS | Laboratory Control Sample | SVS100902H | 61657 |  | 10/30/2002 | 1407 |
|-----|---------------------------|------------|-------|--|------------|------|

| Parameter/Test Description      | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|---------------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| 2,4-Dinitrotoluene, TCLP        | 45.5154   |           | 50.000000  | 0           | 91.0         | 56-105   |   |
| Hexachlorobenzene, TCLP         | 45.9675   |           | 50.000000  | 0           | 91.9         | 54-157   |   |
| Hexachlorobutadiene, TCLP       | 47.2839   |           | 50.000000  | 0           | 94.6         | 24-123   |   |
| Hexachloroethane, TCLP          | 42.3669   |           | 50.000000  | 0           | 84.7         | 36-114   |   |
| Nitrobenzene, TCLP              | 38.8662   |           | 50.000000  | 0           | 77.7         | 42-124   |   |
| 2-Methylphenol (o-Cresol), TCLP | 29.7610   |           | 50.000000  | 0           | 59.5         | 37-96    |   |
| 4-Methylphenol (p-Cresol), TCLP | 27.4893   |           | 50.000000  | 0           | 55.0         | 29-98    |   |
| Pentachlorophenol, TCLP         | 53.3778   |           | 50.000000  | 0           | 106.8        | 20-134   |   |
| 2,4,5-Trichlorophenol, TCLP     | 41.9772   |           | 50.000000  | 0           | 84.0         | 49-117   |   |
| 2,4,6-Trichlorophenol, TCLP     | 43.1345   |           | 50.000000  | 0           | 86.3         | 56-117   |   |
| Pyridine, TCLP                  | 26.0303   |           | 50.000000  | 0           | 52.1         | 36-90    |   |

|    |              |            |       |  |            |      |
|----|--------------|------------|-------|--|------------|------|
| MB | Method Blank | SVS102502I | 61657 |  | 10/30/2002 | 1120 |
|----|--------------|------------|-------|--|------------|------|

| Parameter/Test Description      | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|---------------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| 2,4-Dinitrotoluene, TCLP        | 0         |           |            |             |              |          |   |
| Hexachlorobenzene, TCLP         | 0         |           |            |             |              |          |   |
| Hexachlorobutadiene, TCLP       | 0         |           |            |             |              |          |   |
| Hexachloroethane, TCLP          | 0         |           |            |             |              |          |   |
| Nitrobenzene, TCLP              | 0         |           |            |             |              |          |   |
| 2-Methylphenol (o-Cresol), TCLP | 0         |           |            |             |              |          |   |
| 4-Methylphenol (p-Cresol), TCLP | 0         |           |            |             |              |          |   |
| Pentachlorophenol, TCLP         | 0         |           |            |             |              |          |   |
| 2,4,5-Trichlorophenol, TCLP     | 0         |           |            |             |              |          |   |
| 2,4,6-Trichlorophenol, TCLP     | 0         |           |            |             |              |          |   |
| Pyridine, TCLP                  | 0         |           |            |             |              |          |   |

|    |             |            |       |  |            |      |
|----|-------------|------------|-------|--|------------|------|
| PB | Prep. Blank | SVS102502I | 61657 |  | 10/30/2002 | 1154 |
|----|-------------|------------|-------|--|------------|------|

| Parameter/Test Description      | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|---------------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| 2,4-Dinitrotoluene, TCLP        | 0         |           |            |             |              |          |   |
| Hexachlorobenzene, TCLP         | 0         |           |            |             |              |          |   |
| Hexachlorobutadiene, TCLP       | 0         |           |            |             |              |          |   |
| Hexachloroethane, TCLP          | 0         |           |            |             |              |          |   |
| Nitrobenzene, TCLP              | 0         |           |            |             |              |          |   |
| 2-Methylphenol (o-Cresol), TCLP | 0         |           |            |             |              |          |   |
| 4-Methylphenol (p-Cresol), TCLP | 0         |           |            |             |              |          |   |
| Pentachlorophenol, TCLP         | 0         |           |            |             |              |          |   |
| 2,4,5-Trichlorophenol, TCLP     | 0         |           |            |             |              |          |   |
| 2,4,6-Trichlorophenol, TCLP     | 0         |           |            |             |              |          |   |
| Pyridine, TCLP                  | 0         |           |            |             |              |          |   |

QUALITY CONTROL RESULTS

Job Number.: 243138

Report Date.: 11/04/2002

CUSTOMER: Arcadis G&M- Midland, TX

PROJECT: CARLSBAD, NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|-------------|------------|--------|-----------------|------|------|
|---------|-------------|------------|--------|-----------------|------|------|

|    |             |            |       |  |            |      |
|----|-------------|------------|-------|--|------------|------|
| PB | Prep. Blank | SVS102502I | 61657 |  | 10/30/2002 | 1227 |
|----|-------------|------------|-------|--|------------|------|

| Parameter/Test Description      | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|---------------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| 2,4-Dinitrotoluene, TCLP        | 0         |           |            |             |              |          |   |
| Hexachlorobenzene, TCLP         | 0         |           |            |             |              |          |   |
| Hexachlorobutadiene, TCLP       | 0         |           |            |             |              |          |   |
| Hexachloroethane, TCLP          | 0         |           |            |             |              |          |   |
| Nitrobenzene, TCLP              | 0         |           |            |             |              |          |   |
| 2-Methylphenol (o-Cresol), TCLP | 0         |           |            |             |              |          |   |
| 4-Methylphenol (p-Cresol), TCLP | 0         |           |            |             |              |          |   |
| Pentachlorophenol, TCLP         | 0         |           |            |             |              |          |   |
| 2,4,5-Trichlorophenol, TCLP     | 0         |           |            |             |              |          |   |
| 2,4,6-Trichlorophenol, TCLP     | 0         |           |            |             |              |          |   |
| Pyridine, TCLP                  | 0         |           |            |             |              |          |   |

|    |              |            |       |  |            |      |
|----|--------------|------------|-------|--|------------|------|
| SB | Spiked Blank | SVS100902H | 61657 |  | 10/30/2002 | 1300 |
|----|--------------|------------|-------|--|------------|------|

| Parameter/Test Description      | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits   | F |
|---------------------------------|-----------|-----------|------------|-------------|--------------|------------|---|
| 2,4-Dinitrotoluene, TCLP        | 46.9254   |           | 50.000000  | 0           | 94           | 29.0-135.0 |   |
| Hexachlorobenzene, TCLP         | 45.4709   |           | 50.000000  | 0           | 91           | 46.0-139.0 |   |
| Hexachlorobutadiene, TCLP       | 47.0136   |           | 50.000000  | 0           | 94           | 26.0-115.0 |   |
| Hexachloroethane, TCLP          | 40.5564   |           | 50.000000  | 0           | 81           | 25.0-225.0 |   |
| Nitrobenzene, TCLP              | 39.0352   |           | 50.000000  | 0           | 78           | 24.0-142.0 |   |
| 2-Methylphenol (o-Cresol), TCLP | 29.6542   |           | 50.000000  | 0           | 59           | 26.0-95.0  |   |
| 4-Methylphenol (p-Cresol), TCLP | 26.6437   |           | 50.000000  | 0           | 53           | 11.0-112.0 |   |
| Pentachlorophenol, TCLP         | 53.5025   |           | 50.000000  | 0           | 107          | 38.0-140.0 |   |
| 2,4,5-Trichlorophenol, TCLP     | 41.9632   |           | 50.000000  | 0           | 84           | 38.0-130.0 |   |
| 2,4,6-Trichlorophenol, TCLP     | 42.7991   |           | 50.000000  | 0           | 86           | 35.0-136.0 |   |
| Pyridine, TCLP                  | 23.2752   |           | 50.000000  | 0           | 47           | 23.0-76.0  |   |

|     |                        |            |       |  |            |      |
|-----|------------------------|------------|-------|--|------------|------|
| SBD | Spiked Blank Duplicate | SVS100902H | 61657 |  | 10/30/2002 | 1333 |
|-----|------------------------|------------|-------|--|------------|------|

| Parameter/Test Description      | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|---------------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| 2,4-Dinitrotoluene, TCLP        | 45.2656   | 46.9254   | 50.000000  | 0           | 90.5         | 29-135   |   |
| Hexachlorobenzene, TCLP         | 48.3492   | 45.4709   | 50.000000  | 0           | 3.6          | 22       |   |
| Hexachlorobutadiene, TCLP       | 48.9392   | 47.0136   | 50.000000  | 0           | 96.7         | 46-139   |   |
| Hexachloroethane, TCLP          | 42.9104   | 40.5564   | 50.000000  | 0           | 6.1          | 21       |   |
| Nitrobenzene, TCLP              | 40.9690   | 39.0352   | 50.000000  | 0           | 97.9         | 26-115   |   |
| 2-Methylphenol (o-Cresol), TCLP | 31.0664   | 29.6542   | 50.000000  | 0           | 4.0          | 25       |   |
| 4-Methylphenol (p-Cresol), TCLP | 28.5193   | 26.6437   | 50.000000  | 0           | 85.8         | 25-225   |   |
| Pentachlorophenol, TCLP         | 54.4963   | 53.5025   | 50.000000  | 0           | 5.6          | 25       |   |
| 2,4,5-Trichlorophenol, TCLP     | 42.9126   | 41.9632   | 50.000000  | 0           | 81.9         | 24-142   |   |
| 2,4,6-Trichlorophenol, TCLP     | 43.9654   | 42.7991   | 50.000000  | 0           | 4.8          | 21       |   |
|                                 |           |           |            |             | 62.1         | 26-95    |   |
|                                 |           |           |            |             | 4.7          | 27       |   |
|                                 |           |           |            |             | 57.0         | 11-112   |   |
|                                 |           |           |            |             | 6.8          | 36       |   |
|                                 |           |           |            |             | 109.0        | 38-140   |   |
|                                 |           |           |            |             | 1.8          | 18       |   |
|                                 |           |           |            |             | 85.8         | 38-130   |   |
|                                 |           |           |            |             | 2.2          | 23       |   |
|                                 |           |           |            |             | 87.9         | 35-136   |   |
|                                 |           |           |            |             | 2.7          | 16       |   |

## QUALITY CONTROL RESULTS

Job Number.: 243138

Report Date.: 11/04/2002

| CUSTOMER: Arcadis G&M- Midland, TX |             | PROJECT: CARLSBAD, NH |        | ATTN:           |           |
|------------------------------------|-------------|-----------------------|--------|-----------------|-----------|
| QC Type                            | Description | Reag. Code            | Lab ID | Dilution Factor | Date Time |

|     |                        |            |       |  |                 |
|-----|------------------------|------------|-------|--|-----------------|
| SBD | Spiked Blank Duplicate | SVS100902H | 61657 |  | 10/30/2002 1333 |
|-----|------------------------|------------|-------|--|-----------------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits    | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|-------------|---|
| Pyridine, TCLP             | 25.9089   | 23.2752   | 50.000000  | 0           | 51.8<br>10.7 | 23-76<br>59 |   |

Test Method.....: SW-846 8260B

Units.....: ug/L

Analyst....: yxl

Method Description.: Volatile Organics

Batch(s)....: 61716

|     |                           |           |         |  |                 |
|-----|---------------------------|-----------|---------|--|-----------------|
| LCS | Laboratory Control Sample | VS101602E | 61716-1 |  | 10/28/2002 1119 |
|-----|---------------------------|-----------|---------|--|-----------------|

| Parameter/Test Description              | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|-----------------------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| Benzene, Water                          | 46.5987   |           | 50.00      | ND          | 93.2         | 68-127   |   |
| Carbon Tetrachloride, Water             | 39.8491   |           | 50.00      | ND          | 79.7         | 54-140   |   |
| Chlorobenzene, Water                    | 48.3915   |           | 50.00      | ND          | 96.8         | 65-129   |   |
| Chloroform, Water                       | 44.7906   |           | 50.00      | ND          | 89.6         | 71-131   |   |
| 1,4-Dichlorobenzene, Water              | 45.1443   |           | 50.00      | ND          | 90.3         | 46-142   |   |
| 1,2-Dichloroethane, Water               | 42.8271   |           | 50.00      | ND          | 85.7         | 65-133   |   |
| 1,1-Dichloroethene, Water               | 50.9528   |           | 50.00      | ND          | 101.9        | 48-147   |   |
| Tetrachloroethene, Water                | 47.6841   |           | 50.00      | ND          | 95.4         | 59-134   |   |
| Trichloroethene, Water                  | 49.1970   |           | 50.00      | ND          | 98.4         | 64-130   |   |
| Vinyl Chloride, Water                   | 39.2067   |           | 50.00      | ND          | 78.4         | 35-155   |   |
| Methyl Ethyl Ketone (2-Butanone), Water | 27.3275   |           | 50.00      | ND          | 54.7         | 38-186   |   |

|     |                           |           |         |  |                 |
|-----|---------------------------|-----------|---------|--|-----------------|
| LCS | Laboratory Control Sample | VS101602E | 61716-2 |  | 10/29/2002 1105 |
|-----|---------------------------|-----------|---------|--|-----------------|

| Parameter/Test Description              | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|-----------------------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| Benzene, Water                          | 47.8906   |           | 50.00      | ND          | 95.8         | 68-127   |   |
| Carbon Tetrachloride, Water             | 40.6347   |           | 50.00      | ND          | 81.3         | 54-140   |   |
| Chlorobenzene, Water                    | 51.9432   |           | 50.00      | ND          | 103.9        | 65-129   |   |
| Chloroform, Water                       | 47.9425   |           | 50.00      | ND          | 95.9         | 71-131   |   |
| 1,4-Dichlorobenzene, Water              | 47.3917   |           | 50.00      | ND          | 94.8         | 46-142   |   |
| 1,2-Dichloroethane, Water               | 48.0987   |           | 50.00      | ND          | 96.2         | 65-133   |   |
| 1,1-Dichloroethene, Water               | 50.3276   |           | 50.00      | ND          | 100.7        | 48-147   |   |
| Tetrachloroethene, Water                | 49.1695   |           | 50.00      | ND          | 98.3         | 59-134   |   |
| Trichloroethene, Water                  | 51.1027   |           | 50.00      | ND          | 102.2        | 64-130   |   |
| Vinyl Chloride, Water                   | 34.1870   |           | 50.00      | ND          | 68.4         | 35-155   |   |
| Methyl Ethyl Ketone (2-Butanone), Water | 29.1303   |           | 50.00      | ND          | 58.3         | 38-186   |   |

|    |              |           |         |  |                 |
|----|--------------|-----------|---------|--|-----------------|
| MB | Method Blank | VS101602C | 61716-1 |  | 10/28/2002 1211 |
|----|--------------|-----------|---------|--|-----------------|

| Parameter/Test Description  | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|-----------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| Benzene, Water              | ND        |           |            |             |              |          |   |
| Carbon Tetrachloride, Water | ND        |           |            |             |              |          |   |
| Chlorobenzene, Water        | ND        |           |            |             |              |          |   |
| Chloroform, Water           | ND        |           |            |             |              |          |   |
| 1,4-Dichlorobenzene, Water  | ND        |           |            |             |              |          |   |
| 1,2-Dichloroethane, Water   | ND        |           |            |             |              |          |   |
| 1,1-Dichloroethene, Water   | ND        |           |            |             |              |          |   |
| Tetrachloroethene, Water    | ND        |           |            |             |              |          |   |

SEVERN

TRENT

SERVICES

STL Houston

## QUALITY CONTROL RESULTS

Job Number.: 243138

Report Date.: 11/04/2002

CUSTOMER: Arcadis G&amp;M- Midland, TX

PROJECT: CARLSBAD, NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|-------------|------------|--------|-----------------|------|------|
|---------|-------------|------------|--------|-----------------|------|------|

|    |              |           |         |  |            |      |
|----|--------------|-----------|---------|--|------------|------|
| MB | Method Blank | VS101602C | 61716-1 |  | 10/28/2002 | 1211 |
|----|--------------|-----------|---------|--|------------|------|

| Parameter/Test Description              | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|-----------------------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| Trichloroethene, Water                  | ND        |           |            |             |              |          |   |
| Vinyl Chloride, Water                   | ND        |           |            |             |              |          |   |
| Methyl Ethyl Ketone (2-Butanone), Water | ND        |           |            |             |              |          |   |

|    |              |  |         |  |            |      |
|----|--------------|--|---------|--|------------|------|
| MB | Method Blank |  | 61716-2 |  | 10/29/2002 | 1250 |
|----|--------------|--|---------|--|------------|------|

| Parameter/Test Description              | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|-----------------------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| Benzene, Water                          | ND        |           |            |             |              |          |   |
| Carbon Tetrachloride, Water             | ND        |           |            |             |              |          |   |
| Chlorobenzene, Water                    | ND        |           |            |             |              |          |   |
| Chloroform, Water                       | ND        |           |            |             |              |          |   |
| 1,4-Dichlorobenzene, Water              | ND        |           |            |             |              |          |   |
| 1,2-Dichloroethane, Water               | ND        |           |            |             |              |          |   |
| 1,1-Dichloroethene, Water               | ND        |           |            |             |              |          |   |
| Tetrachloroethene, Water                | ND        |           |            |             |              |          |   |
| Trichloroethene, Water                  | ND        |           |            |             |              |          |   |
| Vinyl Chloride, Water                   | ND        |           |            |             |              |          |   |
| Methyl Ethyl Ketone (2-Butanone), Water | ND        |           |            |             |              |          |   |

|    |              |           |          |  |            |      |
|----|--------------|-----------|----------|--|------------|------|
| MS | Matrix Spike | VS101602F | 243287-1 |  | 10/28/2002 | 1448 |
|----|--------------|-----------|----------|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| Benzene, Water             | 61.2187   |           | 50.00      | ND          | 122          | 65-125   |   |
| Chlorobenzene, Water       | 63.9709   |           | 50.00      | ND          | 128          | 74-122   | A |
| 1,1-Dichloroethene, Water  | 64.7341   |           | 50.00      | ND          | 129          | 22-123   | A |
| Trichloroethene, Water     | 61.8642   |           | 50.00      | ND          | 124          | 56-118   | A |

|    |              |           |          |  |            |      |
|----|--------------|-----------|----------|--|------------|------|
| MS | Matrix Spike | VS101602E | 243287-4 |  | 10/29/2002 | 1435 |
|----|--------------|-----------|----------|--|------------|------|

| Parameter/Test Description              | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|-----------------------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| Benzene, Water                          | 64.6897   |           | 50.00      | ND          | 129          | 65-125   | A |
| Carbon Tetrachloride, Water             | 56.4224   |           | 50.00      | ND          | 113          | 69-135   |   |
| Chlorobenzene, Water                    | 67.4919   |           | 50.00      | ND          | 135          | 74-122   | A |
| Chloroform, Water                       | 74.0701   |           | 50.00      | ND          | 148          | 72-124   | A |
| 1,4-Dichlorobenzene, Water              | 58.5922   |           | 50.00      | ND          | 117          | 60-140   |   |
| 1,2-Dichloroethane, Water               | 56.8949   |           | 50.00      | ND          | 114          | 66-123   |   |
| 1,1-Dichloroethene, Water               | 73.7111   |           | 50.00      | ND          | 147          | 22-123   | A |
| Tetrachloroethene, Water                | 74.4728   |           | 50.00      | ND          | 149          | 67-136   | A |
| Trichloroethene, Water                  | 72.4580   |           | 50.00      | ND          | 145          | 56-118   | A |
| Vinyl Chloride, Water                   | 49.1565   |           | 50.00      | ND          | 98           | 24-170   |   |
| Methyl Ethyl Ketone (2-Butanone), Water | 107.060   |           | 50.00      | ND          | 214          | 34-171   | A |

## QUALITY CONTROL RESULTS

Job Number.: 243138

Report Date.: 11/04/2002

CUSTOMER: Arcadis G&amp;M- Midland, TX

PROJECT: CARLSBAD, NM

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|-------------|------------|--------|-----------------|------|------|
|---------|-------------|------------|--------|-----------------|------|------|

|     |                        |           |          |  |            |      |
|-----|------------------------|-----------|----------|--|------------|------|
| MSD | Matrix Spike Duplicate | VS101602F | 243287-1 |  | 10/28/2002 | 1514 |
|-----|------------------------|-----------|----------|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits       | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|----------------|---|
| Benzene, Water             | 54.1368   | 61.2187   | 50.00      | ND          | 108<br>12.3  | 65-125<br>30.0 |   |
| Chlorobenzene, Water       | 58.6291   | 63.9709   | 50.00      | ND          | 117<br>8.7   | 74-122<br>30.0 |   |
| 1,1-Dichloroethene, Water  | 52.7172   | 64.7341   | 50.00      | ND          | 105<br>20.5  | 22-123<br>30.0 |   |
| Trichloroethene, Water     | 55.1765   | 61.8642   | 50.00      | ND          | 110<br>11.4  | 56-118<br>30.0 |   |

|     |                        |           |          |  |            |      |
|-----|------------------------|-----------|----------|--|------------|------|
| MSD | Matrix Spike Duplicate | VS101602E | 243287-4 |  | 10/29/2002 | 1501 |
|-----|------------------------|-----------|----------|--|------------|------|

| Parameter/Test Description              | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits       | F |
|-----------------------------------------|-----------|-----------|------------|-------------|--------------|----------------|---|
| Benzene, Water                          | 62.4542   | 64.6897   | 50.00      | ND          | 125<br>3.5   | 65-125<br>30.0 |   |
| Carbon Tetrachloride, Water             | 55.3836   | 56.4224   | 50.00      | ND          | 111<br>1.9   | 69-135<br>30.0 |   |
| Chlorobenzene, Water                    | 64.9711   | 67.4919   | 50.00      | ND          | 130<br>3.8   | 74-122<br>30.0 | A |
| Chloroform, Water                       | 72.7557   | 74.0701   | 50.00      | ND          | 146<br>1.8   | 72-124<br>30.0 | A |
| 1,4-Dichlorobenzene, Water              | 58.5555   | 58.5922   | 50.00      | ND          | 117<br>0.1   | 60-140<br>30.0 |   |
| 1,2-Dichloroethane, Water               | 53.3432   | 56.8949   | 50.00      | ND          | 107<br>6.4   | 66-123<br>30.0 |   |
| 1,1-Dichloroethene, Water               | 70.7299   | 73.7111   | 50.00      | ND          | 141<br>4.1   | 22-123<br>30.0 | A |
| Tetrachloroethene, Water                | 74.8296   | 74.4728   | 50.00      | ND          | 150<br>0.5   | 67-136<br>30.0 | A |
| Trichloroethene, Water                  | 68.4391   | 72.4580   | 50.00      | ND          | 137<br>5.7   | 56-118<br>30.0 | A |
| Vinyl Chloride, Water                   | 46.1669   | 49.1565   | 50.00      | ND          | 92<br>6.3    | 24-170<br>30.0 |   |
| Methyl Ethyl Ketone (2-Butanone), Water | 92.8724   | 107.060   | 50.00      | ND          | 186<br>14.2  | 34-171<br>30.0 | A |

|    |             |           |         |  |            |      |
|----|-------------|-----------|---------|--|------------|------|
| PB | Prep. Blank | VS101602C | 61716-1 |  | 10/29/2002 | 1157 |
|----|-------------|-----------|---------|--|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| Benzene, SPLP              | ND        |           |            |             |              |          |   |

|    |             |           |         |          |            |      |
|----|-------------|-----------|---------|----------|------------|------|
| PB | Prep. Blank | VS101602C | 61716-2 | 20.00000 | 10/29/2002 | 1224 |
|----|-------------|-----------|---------|----------|------------|------|

| Parameter/Test Description | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|----------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| Benzene, TCLP              | ND        |           |            |             |              |          |   |
| Carbon Tetrachloride, TCLP | ND        |           |            |             |              |          |   |
| Chlorobenzene, TCLP        | ND        |           |            |             |              |          |   |
| Chloroform, TCLP           | ND        |           |            |             |              |          |   |
| 1,4-Dichlorobenzene, TCLP  | ND        |           |            |             |              |          |   |



|                                    |                          |
|------------------------------------|--------------------------|
| <b>QUALITY CONTROL RESULTS</b>     |                          |
| Job Number.: 243138                | Report Date.: 11/04/2002 |
| CUSTOMER: Arcadis G&M- Midland, TX | PROJECT: CARLSBAD, NM    |
| ATTN:                              |                          |
| QC Type                            | Description              |
| Reag. Code                         | Lab ID                   |
| Dilution Factor                    | Date                     |
| Time                               |                          |
| PB                                 | Prep. Blank              |
| VS101602C                          | 61716-2                  |
| 20.00000                           | 10/29/2002 1224          |

| Parameter/Test Description             | QC Result | QC Result | True Value | Orig. Value | Calc. Result | * Limits | F |
|----------------------------------------|-----------|-----------|------------|-------------|--------------|----------|---|
| 1,2-Dichloroethane, TCLP               | ND        |           |            |             |              |          |   |
| 1,1-Dichloroethene, TCLP               | ND        |           |            |             |              |          |   |
| Tetrachloroethene, TCLP                | ND        |           |            |             |              |          |   |
| Trichloroethene, TCLP                  | ND        |           |            |             |              |          |   |
| Vinyl Chloride, TCLP                   | ND        |           |            |             |              |          |   |
| Methyl Ethyl Ketone (2-Butanone), TCLP | ND        |           |            |             |              |          |   |

**SURROGATE RECOVERIES REPORT**

Job Number.: 243138

Report Date.: 11/04/2002

CUSTOMER: Arcadis G&M- Midland, TX

PROJECT: CARLSBAD, NM

ATTN: Steve Fischer

Method.....: Volatile Organics  
Batch(s).....: 61716

Method Code....: 8260  
Test Matrix....: Water

Prep Batch.....:   
Equipment Code: GCMSV0A04

| Lab ID  | DT | Sample ID  | Date       | 12DCED | BRFLBE | DBRFLM | TOLD8  |
|---------|----|------------|------------|--------|--------|--------|--------|
| 61716-  | 1  | LCS        | 10/28/2002 | 105.7  | 107.3  | 108.3  | 113.9  |
| 61716-  | 1  | MB         | 10/28/2002 | 110.3  | 88.8   | 117.1  | 118.4  |
| 61716-  | 2  | LCS        | 10/29/2002 | 106.0  | 96.3   | 112.9  | 108.9  |
| 61716-  | 2  | MB         | 10/29/2002 | 111.4  | 84.4   | 117.0  | 114.8  |
| 243287- | 1  | MS NT-166  | 10/28/2002 | 125.5  | 101.6  | 144.1A | 132.5S |
| 243287- | 1  | MSD NT-166 | 10/28/2002 | 109.6  | 99.0   | 127.3  | 125.9  |
| 243287- | 4  | MS NT-169  | 10/29/2002 | 121.4  | 112.0  | 146.3S | 130.7A |
| 243287- | 4  | MSD NT-169 | 10/29/2002 | 111.9  | 102.5  | 126.1  | 117.8  |

| Test   | Test Description      | Limits   |
|--------|-----------------------|----------|
| 12DCED | 1,2-Dichloroethane-d4 | 70 - 130 |
| BRFLBE | 4-Bromofluorobenzene  | 70 - 130 |
| DBRFLM | Dibromofluoromethane  | 70 - 130 |
| TOLD8  | Toluene-d8            | 70 - 130 |

Method.....: Volatile Organics  
Batch(s).....: 61716

Method Code....: 8260  
Test Matrix....: SPLP

Prep Batch.....:   
Equipment Code: GCMSV0A04

| Lab ID | DT | Sample ID | Date       | 12DCED | BRFLBE | DBRFLM | TOLD8 |
|--------|----|-----------|------------|--------|--------|--------|-------|
| 61716- | 1  | PB        | 10/29/2002 | 120.0  | 91.4   | 123.5  | 122.2 |

| Test   | Test Description      | Limits   |
|--------|-----------------------|----------|
| 12DCED | 1,2-Dichloroethane-d4 | 70 - 130 |
| BRFLBE | 4-Bromofluorobenzene  | 70 - 130 |
| DBRFLM | Dibromofluoromethane  | 70 - 130 |
| TOLD8  | Toluene-d8            | 70 - 130 |

Method.....: Volatile Organics  
Batch(s).....: 61716

Method Code....: 8260  
Test Matrix....: TCLP

Prep Batch.....:   
Equipment Code: GCMSV0A04

| Lab ID  | DT | Sample ID | Date       | 12DCED | BRFLBE | DBRFLM | TOLD8 |
|---------|----|-----------|------------|--------|--------|--------|-------|
| 61716-  | 2  | PB        | 10/29/2002 | 115.1  | 82.6   | 123.9  | 116.4 |
| 243138- | 1  | CBNM SUMP | 10/29/2002 | 105.6  | 75.2   | 109.4  | 96.3  |

| Test   | Test Description      | Limits   |
|--------|-----------------------|----------|
| 12DCED | 1,2-Dichloroethane-d4 | 70 - 130 |
| BRFLBE | 4-Bromofluorobenzene  | 70 - 130 |
| DBRFLM | Dibromofluoromethane  | 70 - 130 |
| TOLD8  | Toluene-d8            | 70 - 130 |

**SURROGATE RECOVERIES REPORT**

Job Number.: 243138

Report Date.: 11/04/2002

CUSTOMER: Arcadis G&M- Midland, TX

PROJECT: CARLSBAD, NM

ATTN: Steve Tischer

Method.....: Semivolatile Organics  
Batch(s).....: 61790

Method Code...: 8270  
Test Matrix...: TCLP

Prep Batch.....: 61657  
Equipment Code: EGCMS03

| Lab ID    | DT  | Sample ID | Date       | 246TBP | 2FLUBP | 2FLUPH | NITRD5 | PHEND6 | TERD14 |
|-----------|-----|-----------|------------|--------|--------|--------|--------|--------|--------|
| 61657--21 | LCS |           | 10/30/2002 | 111.1  | 82.2   | 42.2   | 80.1   | 26.9   | 76.5   |
| 61657--21 | MB  |           | 10/30/2002 | 99.8   | 82.8   | 44.2   | 84.8   | 30.0   | 81.2   |
| 61657--21 | PB  |           | 10/30/2002 | 82.7   | 62.2   | 48.2   | 64.5   | 39.1   | 69.6   |
| 61657--21 | PB  |           | 10/30/2002 | 94.7   | 78.6   | 53.9   | 73.6   | 40.1   | 80.5   |
| 61657--21 | SB  |           | 10/30/2002 | 114.1  | 80.4   | 41.6   | 77.9   | 26.4   | 76.1   |
| 61657--21 | SB  |           | 10/30/2002 | 111.7  | 83.1   | 44.4   | 83.1   | 27.8   | 78.3   |
| 243138- 1 |     | CBNM SUMP | 10/30/2002 | 23.1   | 77.3   | 69.0   | 78.1   | 67.4   | 92.8   |

| Test   | Test Description     | Limits   |
|--------|----------------------|----------|
| 246TBP | 2,4,6-Tribromophenol | 10 - 123 |
| 2FLUBP | 2-Fluorobiphenyl     | 43 - 116 |
| 2FLUPH | 2-Fluorophenol       | 21 - 100 |
| NITRD5 | Nitrobenzene-d5      | 35 - 114 |
| PHEND6 | Phenol-d6            | 10 - 94  |
| TERD14 | Terphenyl-d14        | 33 - 141 |

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 11/04/2002

REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field, (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reported as the final result.
- m-Cresol and p-Cresol co-elute. The result of the two is reported as either m&p-cresol or as p-cresol.
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, maybe detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.

Explanation of Qualifiers:

- U - This qualifier indicates that the analyte was analyzed but not detected.
- J - (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- B - (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- N - (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

- A - Matrix interference present in sample.
  - a - MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
- b - Target analyte was found in the method blank.
- M - QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
- L - LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were observed above the RL in the associated samples.
- G - Marginal outlier within 1% of acceptance criteria.
- r - RPD value is outside method acceptance criteria.
- C - Poor RPD values observed due to the non-homogenous nature of the sample.
- O - Sample required dilution due to matrix interference.
- D - Sample reported from a dilution.
- d - Spike and/or surrogate diluted out.
- P - The recovery of this analyte is outside default QC limits. The data is accepted and will be used to calculate in-house statistical limits.
- E - The reported concentration exceeds the instrument calibration.
- F - The analyte is outside QC limits. The sample data is accepted since this analyte is not reported in associated samples.
- H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
- W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
- K - High recovery will not affect the quality of reported results.
- Z - See case narrative.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 11/04/2002

Explanation of Organic QC Outliers:

- e - Method blank analysis yielded phthalate concentrations above the RL. Phthalates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
- T - Sample analysis yielded poor surrogate recovery.
- R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
- I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
- X - Gaseous compound. In-house QC limits are advisory.
- Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
- f - Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

- Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
- V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
- e - Serial dilution failed due to matrix interference.
- g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is greater than or equal to 0.995.
- s - BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
- l - BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
- n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.

Abbreviations:

- Batch - Designation given to identify a specific extraction, digestion, preparation, or analysis set.
- CCV - Continuing Calibration Verification
- CRA - Low level standard check - GFAA, Mercury
- CRI - Low level standard check - ICP
- Dil Fac - Dilution Factor - Secondary dilution analysis
- DLFac - Detection Limit Factor
- EB - Extraction Blank (TCLP, SPLP, etc.)
- ICAL - Initial Calibration
- ICB - Initial Calibration Blank
- ICV - Initial Calibration Verification
- ISA - Interference Check Sample A - ICP
- ISB - Interference Check Sample B - ICP
- LCD - Laboratory Control Duplicate
- LCS - Laboratory Control Sample
- MB - Method Blank
- MD - Method Duplicate
- MDL - Method Detection Limit
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- ND - Not Detected

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 11/04/2002

PB - Preparation Blank  
PREPF - Preparation factor  
RPD - Relative Percent Difference  
RRF - Relative Response Factor  
RT - Retention Time

Method References:

- (1) EPA 600/4-79-020 Methods for the Analysis of Water and Wastes, March 1983.
- (2) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986; Update I July 1992; Update II, September 1994, Update IIA August 1193; Update IIB, January 1995; Update III, December 1996.
- (3) Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), 17th Edition (1989),
- (4) HACH Water Analysis Handbook 3rd Edition (1997).
- (5) Federal Register, July 1, 1990 (40 CFR Part 136).
- (6) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Edition, January 1997.
- (7) ASTM Annual Book of Methods (Various Years)
- (8) Diagnosis and Improvement of Saline and Alkali Soils, Agriculture Handbook No. 60, United States Department of Agriculture, 1954.

**LABORATORY CHRONICLE**

Job Number: 243138

Date: 11/04/2002

CUSTOMER: Arcadis G&M- Midland, TX

PROJECT: CARLSBAD, NM

ATTN: Steve Tischer

| Lab ID: 243138-1 | Client ID: CBNM SUMP                     | Date Recvd: 10/24/2002 | Sample Date: 10/21/2002 |         |      |                    |
|------------------|------------------------------------------|------------------------|-------------------------|---------|------|--------------------|
| METHOD           | DESCRIPTION                              | RUN#                   | BATCH#                  | PREP BT | #(S) | DATE/TIME ANALYZED |
| SW-846 9040B     | Corrosivity (pH-Liquids)                 | 1                      | 61378                   |         |      | 10/24/2002 0830    |
| SW-846 3510C     | Extraction (Sep. Funnel) SVOC TCLP       | 1                      | 61657                   |         |      | 10/29/2002 1000    |
| SW-846 1010      | Ignitability (Pensky-Martens Closed-Cup) | 1                      | 61892                   |         |      | 10/31/2002 1130    |
| SW846 7.3        | Reactivity, Cyanide and Sulfide          | 1                      | 61948                   |         |      | 11/01/2002 0156    |
| SW-846 8270C     | Semivolatile Organics                    | 1                      | 61790                   | 61657   |      | 10/30/2002 1545    |
| SW-846 1311      | TCLP Zero Headspace Extraction           | 1                      | 61583                   |         |      | 10/29/2002 0710    |
| SW-846 1311      | Toxicity Characteristic Leachate Proced. | 1                      | 61597                   |         |      | 10/29/2002 0710    |
| SW-846 8260B     | Volatile Organics                        | 1                      | 61716                   | 61583   |      | 10/29/2002 1829    |

DILUTION  
1.00000  
20.0000



ARCADIS GERAGHTY &amp; MILLER

Laboratory Task Order No./P.O. No. \_\_\_\_\_

CHAIN-OF-CUSTODY RECORD

Page \_\_\_\_\_ of \_\_\_\_\_

Project Number/Name MT000763.01.01Project Location Carlsbad NMLaboratory STL - HoustonProject Manager Steve TischerSampler(s)/Affiliation BE/midland

ANALYSIS / METHOD / SIZE

TCLP VOC  
40mL HEL Pres  
TCLP VOC  
Na2S2O3 pre  
Amber liter  
Reactivity Corrosivity  
Ignitability  
plastic liter

| Sample ID/Location               | Matrix | Date/Time Sampled | Label | Remarks | Total |
|----------------------------------|--------|-------------------|-------|---------|-------|
| CBUM Sump                        | L      | 10/24/02 1500     | 4     | 3       | 1     |
| Trip blank                       | L      | —                 | 2     | 1       | 1     |
| <div>BNL</div>                   |        |                   |       |         | 82    |
|                                  |        |                   |       |         |       |
|                                  |        |                   |       |         |       |
|                                  |        |                   |       |         |       |
|                                  |        |                   |       |         |       |
|                                  |        |                   |       |         |       |
|                                  |        |                   |       |         |       |
|                                  |        |                   |       |         |       |
|                                  |        |                   |       |         |       |
|                                  |        |                   |       |         |       |
| Total No. of Bottles/ Containers |        |                   |       |         | 10    |

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by Bred Thomas Organization: ARCADISDate 10/27/02 Time 1530Seal Intact? Yes No N/A

Received by: \_\_\_\_\_ Organization: \_\_\_\_\_

Date \_\_\_\_\_ Time \_\_\_\_\_

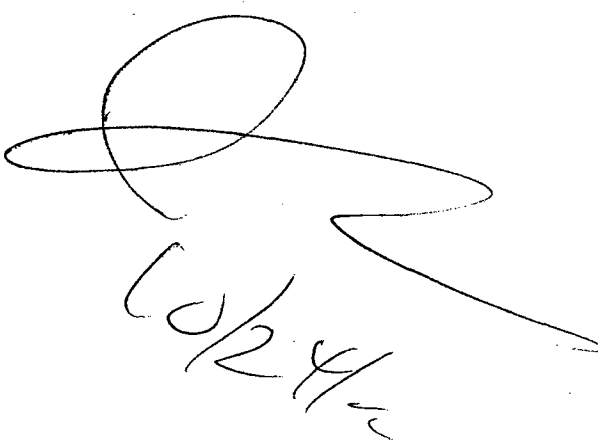
Seal Intact? Yes No N/A

Special Instructions/Remarks: Questions call Ralph Lange @ 915 687 5400Delivery Method: ☐ In Person☒ Common Carrier FedEx☐ Lab Courier☐ Other

SPECIFY

AG 05-0597



| rpjsckl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                    | Job Sample Receipt Checklist Report |  | V2 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------|--|----|
| <div style="display: flex; justify-content: space-between;"> <div> Job Number.: 243138    Location.: 57216    Check List Number.: 1    Description.:<br/> Customer Job ID.....:                      Job Check List Date.: 10/24/2002<br/> Project Number.: 99003009    Project Description.: Carlsbad, NM<br/> Customer.....: Arcadis G&amp;M- Midland, TX                      Contact.: Steve Tischer </div> <div style="text-align: right;"> Date of the Report...: 10/24/2002<br/> Project Manager.....: avv </div> </div> |                                                                                    |                                     |  |    |
| Questions ?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (Y/N) Comments                                                                     |                                     |  |    |
| Chain of Custody Received?..... Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                     |  |    |
| ...If "yes", completed properly?..... Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                    |                                     |  |    |
| Custody seal on shipping container?..... Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                    |                                     |  |    |
| ...If "yes", custody seal intact?..... Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                    |                                     |  |    |
| Custody seals on sample containers?..... N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                    |                                     |  |    |
| ...If "yes", custody seal intact?.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                    |                                     |  |    |
| Samples chilled?..... Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                    |                                     |  |    |
| Temperature of cooler acceptable? (4 deg C +/- 2). Y    2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                     |  |    |
| ...If "no", is sample an air matrix?(no temp req.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                    |                                     |  |    |
| Thermometer ID..... Y    324                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |                                     |  |    |
| Samples received intact (good condition)?..... Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |                                     |  |    |
| Volatile samples acceptable? (no headspace)..... Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                    |                                     |  |    |
| Correct containers used?..... Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |                                     |  |    |
| Adequate sample volume provided?..... Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                    |                                     |  |    |
| Samples preserved correctly?..... Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                    |                                     |  |    |
| Samples received within holding-time?..... Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |                                     |  |    |
| Agreement between COC and sample labels?..... Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |                                     |  |    |
| Radioactivity at or below background levels?..... Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                    |                                     |  |    |
| Additional.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |                                     |  |    |
| Comments.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                    |                                     |  |    |
| Sample Custodian Signature/Date..... Y    jpc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                    |                                     |  |    |

STANDARD  
SAMPLE RECEIPT CHECKLIST

CLIENT Arcadis CONTACT \_\_\_\_\_  
 PROJECT \_\_\_\_\_ CARRIER FedEx  
 DATE SHIPPED 10/22/02 UNPACKED BY JB  
 DATE RECEIVED 2002 OCT 23 AM 9:21 UNPACKED STAMP 2002 OCT 24 AM 7:43  
 NUMBER OF KITS RECEIVED 1 JOB# 243/38 B.O.# \_\_\_\_\_

KIT CHECKLIST

| KIT ID     | COC<br>PRESENT | CUSTODY TAPE |            | COOLER TEMP<br>Thermometer # | # OF SAMPLE<br>CONTAINERS |
|------------|----------------|--------------|------------|------------------------------|---------------------------|
|            |                | PRESENT?     | INTACT?    |                              |                           |
| RTW<br>STL | yes            | C <u>yes</u> | <u>yes</u> | 324                          | 10                        |
|            |                | B <u>✓</u>   | <u>✓</u>   | 2.0                          |                           |
|            |                | C            |            |                              |                           |
|            |                | B            |            |                              |                           |
|            |                | C            |            |                              |                           |
|            |                | B            |            |                              |                           |

C = COOLER B = BOTTLES

PH OF WATER SAMPLES CHECKED? Yes X No \_\_\_\_\_ SAMPLE(S) SCREENED FOR RADIATION? Yes X No \_\_\_\_\_

VOLATILE HEAD SPACE CHECKED? Yes X No \_\_\_\_\_

SHORT HOLD / RUSH SAMPLES (include department delivered to and time delivered)

INCONSISTENCIES

ACTION TAKEN

PERSON CONTACTED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 RESOLUTION \_\_\_\_\_

EMPLOYEE \_\_\_\_\_ DATE: \_\_\_\_\_

☐ HNO<sub>3</sub> 6 ☐ HCL 3 ☐ H<sub>2</sub>SO<sub>4</sub> 4 ☐ NaOH 3 ☐ Na<sub>2</sub>S<sub>2</sub>O<sub>8</sub> 4 ☐ NEAT ☐ NaHSO<sub>4</sub> ☐ OT/PRE.  
 (Water Only)  
6 VOA 7 VOA  
Other Other

| # Cont.   | Matrix   |
|-----------|----------|
| <u>10</u> | <u>W</u> |
|           |          |
| Total     |          |

NOTES \_\_\_\_\_

Project Manager [Signature]

(This space for State Use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: Martyn J. J. J. TITLE: Environmental Geologist DATE: 1/10/02

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR PNMADDRESS 2401 Aztec NE 2110, Albuquerque, NM 87107GENERATING SITE Alamogordo Natural Gas Mainline - Chaparral Compressor Station  
to Hueco TanksCOUNTY Dona Ana STATE NMTYPE OF WASTE CH ~~Hydrostatic~~ Hydrostatic Test WaterESTIMATED VOLUME 1450 bblGENERATING PROCESS Hydrostatic Test of Used Natural  
Gas Pipeline

REMARKS \_\_\_\_\_

NMOCD FACILITY Controlled Recovery IncTRUCKING COMPANY CR1/MacIskey

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Claudette B. Horn

SIGNATURE

NAME Claudette B. Horn

PRINTED

ADDRESS 2401 Aztec NE 2110Albuquerque, NM 87107DATE 1/2/2003

Public Service Company  
of New Mexico  
2401 Aztec, NE  
Albuquerque, NM 87107  
Fax 505-855-6320

FAX TRANSMITTAL

January 2, 2003



Ken Marsh  
Controlled Recovery, Inc.  
PO Box 388  
Hobbs, NM 88241  
505-393-1079 (phone)  
505-393-3615 (fax)

RE: Disposal of Hydrostatic Test Water from PNM Alamogordo Mainline

Dear Mr. Marsh,

Attached are the analytical results of the hydrostatic test water conducted in accordance with NMOCD approval HI-081. Three frac tanks located at the PNM Chaparral Compressor Station were used for the storage of the hydrostatic test water. Water samples were collected from each of the tanks on December 18, 2002, and were analyzed for reactivity, corrosivity, ignitability, metals, and semi-volatiles. According to the analytical results, none of the samples exhibited hazardous characteristics.

All samples except for corrosivity were delivered to Pinnacle Laboratories in Albuquerque for analysis on December 19, 2002. The chain-of-custody is attached. The pH of the water was analyzed using a PNM field meter on December 18, 2002. PNM Meter #2 was calibrated at pH of 7 and 10 prior to taking the field readings.

| Tank ID | pH   | Temperature (° F) | Time  |
|---------|------|-------------------|-------|
| Tank 83 | 5.79 | 51.7              | 12:18 |
| Tank 82 | 5.36 | 48.9              | 12:57 |
| Tank 84 | 5.53 | 45.4              | 12:54 |

Please contact me at 505-855-6393 with any questions or concerns you might have regarding the analyses. I will follow this fax with mailed hard copies of the analytical results as soon as I receive the originals. Please provide me a copy of the NMOCD disposal approval when you receive it.

Sincerely,

A handwritten signature in cursive script that reads "Claudette Horn".

Claudette Bonham Horn  
Sr. Environmental Scientist

Cc: Gina Bacaoan (505-443-6447)

Dec 31 02 09:40a

STL/Pensacola

850 478-2671

p. 1

SEVERN

TRENT

SERVICES

STL Pensacola

LOG NO: C2-12388

Received: 20 DEC 02

Reported: 31 DEC 02

Ms. Jacinta Tenorio  
Pinnacle Laboratories  
2709-D Pan American Freeway Northeast  
Albuquerque, NM 87107

Client PO. No.: 212081

Project: 212081, PNM-ALAMO GORDO HYDRO TEST

Sampled By: Client

Code: 103321231

Page 1

## REPORT OF RESULTS

| LOG NO                                     | SAMPLE DESCRIPTION , LIQUID SAMPLES | DATE/<br>TIME SAMPLED |           |           |
|--------------------------------------------|-------------------------------------|-----------------------|-----------|-----------|
| 12388-1                                    | TANK 84/212081-01                   | 12-18-02/12:40        |           |           |
| 12388-2                                    | TANK 83/212081-02                   | 12-18-02/12:27        |           |           |
| 12388-3                                    | TANK 82/212081-03                   | 12-18-02/12:32        |           |           |
| PARAMETER                                  |                                     | 12388-1               | 12388-2   | 12388-3   |
| Ignitability-flash point (1010), Degrees C |                                     | >100                  | >100      | >100      |
| Analysis Date                              |                                     | 12.26.02              | 12.26.02  | 12.26.02  |
| Batch ID                                   |                                     | FPX049                | FPX049    | FPX049    |
| Prep Method                                |                                     | 1                     | 1         | 1         |
| Analyst                                    |                                     | CR                    | CR        | CR        |
| Total Releasable Cyanide (9014), mg/kg     |                                     | <0.25                 | <0.25     | <0.25     |
| Dilution Factor                            |                                     | 1                     | 1         | 1         |
| Prep Date                                  |                                     | 12.21.02              | 12.21.02  | 12.21.02  |
| Analysis Date                              |                                     | 12.21.02              | 12.21.02  | 12.21.02  |
| Batch ID                                   |                                     | RCX031                | RCX031    | RCX031    |
| Prep Method                                |                                     | SW7.3.3.2             | SW7.3.3.2 | SW7.3.3.2 |
| Analyst                                    |                                     | BH                    | BH        | BH        |
| Total Releasable Sulfide (9034), mg/kg     |                                     | <150                  | <150      | <150      |
| Dilution Factor                            |                                     | 1                     | 1         | 1         |
| Prep Date                                  |                                     | 12.21.02              | 12.21.02  | 12.21.02  |
| Analysis Date                              |                                     | 12.21.02              | 12.21.02  | 12.21.02  |
| Batch ID                                   |                                     | RSX030                | RSX030    | RSX030    |
| Prep Method                                |                                     | SW7.3.4.2             | SW7.3.4.2 | SW7.3.4.2 |
| Analyst                                    |                                     | BH                    | BH        | BH        |

7400

SEVERN

TRENT

SERVICES

STL Pensacola

LOG NO: C2-12388

Received: 20 DEC 02

Reported: 31 DEC 02

Ms. Jacinta Tenorio  
Pinnacle Laboratories  
2709-D Pan American Freeway Northeast  
Albuquerque, NM 87107

Client PO. No.: 212081

Project: 212081, PNM-ALAMOGORDO HYDRO TEST

Sampled By: Client

Code: 103321231

Page 2

## REPORT OF RESULTS

| LOG NO                              | SAMPLE DESCRIPTION , LIQUID SAMPLES | DATE/<br>TIME SAMPLED |          |          |
|-------------------------------------|-------------------------------------|-----------------------|----------|----------|
| 12388-1                             | TANK 84/212081-01                   | 12-18-02/12:40        |          |          |
| 12388-2                             | TANK 83/212081-02                   | 12-18-02/12:27        |          |          |
| 12388-3                             | TANK 82/212081-03                   | 12-18-02/12:32        |          |          |
| PARAMETER                           |                                     | 12388-1               | 12388-2  | 12388-3  |
| RCRA Metals in TCLP Extract (6010B) |                                     |                       |          |          |
| Arsenic (TCLP), mg/l                |                                     | 0.17                  | <0.025   | 0.17     |
| Barium (TCLP), mg/l                 |                                     | 0.24                  | 0.20     | 0.38     |
| Cadmium (TCLP), mg/l                |                                     | <0.025                | <0.025   | <0.025   |
| Chromium (TCLP), mg/l               |                                     | <0.025                | <0.025   | <0.025   |
| Lead (TCLP), mg/l                   |                                     | <0.025                | <0.025   | <0.025   |
| Selenium (TCLP), mg/l               |                                     | <0.050                | <0.050   | <0.050   |
| Silver (TCLP), mg/l                 |                                     | <0.025                | <0.025   | <0.025   |
| Dilution Factor                     |                                     | 5                     | 5        | 5        |
| Prep Date                           |                                     | 12.26.02              | 12.26.02 | 12.26.02 |
| Analysis Date                       |                                     | 12.27.02              | 12.27.02 | 12.27.02 |
| Batch ID                            |                                     | PT101                 | PT101    | PT101    |
| Prep Method                         |                                     | 3010A                 | 3010A    | 3010A    |
| Analyst                             |                                     | GSP                   | GSP      | GSP      |
| Mercury (TCLP) (7470A), mg/l        |                                     | <0.0020               | <0.0020  | <0.0020  |
| Dilution Factor                     |                                     | 10                    | 10       | 10       |
| Prep Date                           |                                     | 12.26.02              | 12.26.02 | 12.26.02 |
| Analysis Date                       |                                     | 12.26.02              | 12.26.02 | 12.26.02 |
| Batch ID                            |                                     | HGW120                | HGW120   | HGW120   |
| Prep Method                         |                                     | 7470A                 | 7470A    | 7470A    |
| Analyst                             |                                     | JDE                   | JDE      | JDE      |



STL Pensacola

LOG NO: C2-12388

Received: 20 DEC 02

Reported: 31 DEC 02

Ms. Jacinta Tenorio  
Pinnacle Laboratories  
2709-D Pan American Freeway Northeast  
Albuquerque, NM 87107

Client PO. No.: 212081

Project: 212081, PNM-ALAMOGORDO HYDRO TEST

Sampled By: Client

Code: 103321231

Page 3

## REPORT OF RESULTS

| LOG NO                                | SAMPLE DESCRIPTION , LIQUID SAMPLES | DATE/<br>TIME SAMPLED |          |          |
|---------------------------------------|-------------------------------------|-----------------------|----------|----------|
| 12388-1                               | TANK 84/212081-01                   | 12-18-02/12:40        |          |          |
| 12388-2                               | TANK 83/212081-02                   | 12-18-02/12:27        |          |          |
| 12388-3                               | TANK 82/212081-03                   | 12-18-02/12:32        |          |          |
| PARAMETER                             |                                     | 12388-1               | 12388-2  | 12388-3  |
| Semivolatiles in TCLP Extract (8270C) |                                     |                       |          |          |
| Cresol (ortho) (TCLP), mg/l           |                                     | <0.050                | <0.050   | <0.050   |
| Cresol m & p (TCLP), mg/l             |                                     | <0.050                | <0.050   | <0.050   |
| 2,4-Dinitrotoluene (TCLP), mg/l       |                                     | <0.010                | <0.010   | <0.010   |
| Hexachlorobenzene (TCLP), mg/l        |                                     | <0.010                | <0.010   | <0.010   |
| Hexachlorobutadiene (TCLP), mg/l      |                                     | <0.020                | <0.020   | <0.020   |
| Hexachloroethane (TCLP), mg/l         |                                     | <0.020                | <0.020   | <0.020   |
| Nitrobenzene (TCLP), mg/l             |                                     | <0.020                | <0.020   | <0.020   |
| Pentachlorophenol (TCLP), mg/l        |                                     | <0.050                | <0.050   | <0.050   |
| 2,4,5-Trichlorophenol (TCLP), mg/l    |                                     | <0.050                | <0.050   | <0.050   |
| 2,4,6-Trichlorophenol (TCLP), mg/l    |                                     | <0.050                | <0.050   | <0.050   |
| Pyridine (TCLP), mg/l                 |                                     | <0.020                | <0.020   | <0.020   |
| Surrogate - 2-Fluorobiphenyl          |                                     | 88 %                  | 86 %     | 84 %     |
| Surrogate - 2-Fluorophenol            |                                     | 63 %                  | 62 %     | 14 %     |
| Surrogate - Nitrobenzene-d5           |                                     | 71 %                  | 74 %     | 73 %     |
| Surrogate - Phenol-d5                 |                                     | 67 %                  | 61 %     | 58 %     |
| Surrogate - Terphenyl-d14             |                                     | 100 %                 | 105 %    | 100 %    |
| Surrogate - 2,4,6-Tribromophenol      |                                     | 114 %                 | 105 %    | 102 %    |
| Dilution Factor                       |                                     | 2                     | 2        | 2        |
| Prep Date                             |                                     | 12.26.02              | 12.26.02 | 12.26.02 |
| Analysis Date                         |                                     | 12.28.02              | 12.28.02 | 12.28.02 |
| Batch ID                              |                                     | ALW255                | ALW255   | ALW255   |
| Prep Method                           |                                     | 3520C                 | 3520C    | 3520C    |
| Analyst                               |                                     | LAD                   | LAD      | LAD      |



Feb 31 02 09:41a

STL/Pensacola

850 478-2671

p. 4

SEVERN

TRENT

SERVICES

STL Pensacola

LOG NO: C2-12388

Received: 20 DEC 02

Reported: 31 DEC 02

Ms. Jacinta Tenorio  
Pinnacle Laboratories  
2709-D Pan American Freeway Northeast  
Albuquerque, NM 87107

Client PO. No.: 212081

Project: 212081, PNM-ALAMOGORDO HYDRO TEST

Sampled By: Client

Code: 103321231

Page 4

## REPORT OF RESULTS

| LOG NO                                | SAMPLE DESCRIPTION , LIQUID SAMPLES | DATE/<br>TIME SAMPLED |          |          |
|---------------------------------------|-------------------------------------|-----------------------|----------|----------|
| 12388-1                               | TANK 84/212081-01                   | 12-18-02/12:40        |          |          |
| 12388-2                               | TANK 83/212081-02                   | 12-18-02/12:27        |          |          |
| 12388-3                               | TANK 82/212081-03                   | 12-18-02/12:32        |          |          |
| PARAMETER                             |                                     | 12388-1               | 12388-2  | 12388-3  |
| Volatiles in ZHE TCLP Extract (8260B) |                                     |                       |          |          |
| Benzene (TCLP), mg/l                  |                                     | 0.012                 | <0.0050  | 0.011    |
| Carbon tetrachloride (TCLP), mg/l     |                                     | <0.025                | <0.025   | <0.025   |
| Chlorobenzene (TCLP), mg/l            |                                     | <0.025                | <0.025   | <0.025   |
| Chloroform (TCLP), mg/l               |                                     | <0.025                | <0.025   | <0.025   |
| 1,4-Dichlorobenzene (TCLP), mg/l      |                                     | <0.025                | <0.025   | <0.025   |
| 1,2-Dichloroethane (TCLP), mg/l       |                                     | <0.025                | <0.025   | <0.025   |
| 1,1-Dichloroethylene (TCLP), mg/l     |                                     | <0.025                | <0.025   | <0.025   |
| Methyl ethyl ketone (TCLP), mg/l      |                                     | <0.25                 | <0.25    | <0.25    |
| Tetrachloroethylene (TCLP), mg/l      |                                     | <0.025                | <0.025   | <0.025   |
| Trichloroethylene (TCLP), mg/l        |                                     | <0.025                | <0.025   | <0.025   |
| Vinyl chloride (TCLP), mg/l           |                                     | <0.025                | <0.025   | <0.025   |
| Surrogate - Dibromofluoromethane      |                                     | 104 %                 | 101 %    | 100 %    |
| Surrogate - Toluene-d8                |                                     | 101 %                 | 100 %    | 96 %     |
| Surrogate - 4-Bromofluorobenzene      |                                     | 96 %                  | 101 %    | 99 %     |
| Dilution Factor                       |                                     | 5                     | 5        | 5        |
| Prep Date                             |                                     | 12.26.02              | 12.26.02 | 12.26.02 |
| Analysis Date                         |                                     | 12.27.02              | 12.27.02 | 12.27.02 |
| Batch ID                              |                                     | LET198A               | LET198A  | LET198A  |
| Prep Method                           |                                     | 5030B                 | 5030B    | 5030B    |
| Analyst                               |                                     | WD                    | WD       | WD       |

Dec 31 02 09:41a

STL/Pensacola

850 478-2671

p.5

**STL Pensacola**

LOG NO: C2-12388

Received: 20 DEC 02

Reported: 31 DEC 02

Ms. Jacinta Tenorio  
Pinnacle Laboratories  
2709-D Pan American Freeway Northeast  
Albuquerque, NM 87107

Client PO. No.: 212081

Project: 212081, PNM-ALAMOGORDO HYDRO TEST

Sampled By: Client

Code: 103321231

Page 5

## REPORT OF RESULTS

| LOG NO                                  | SAMPLE DESCRIPTION , LIQUID SAMPLES | DATE/<br>TIME SAMPLED |          |          |
|-----------------------------------------|-------------------------------------|-----------------------|----------|----------|
| 12388-1                                 | TANK 84/212081-01                   | 12-18-02/12:40        |          |          |
| 12388-2                                 | TANK 83/212081-02                   | 12-18-02/12:27        |          |          |
| 12388-3                                 | TANK 82/212081-03                   | 12-18-02/12:32        |          |          |
| PARAMETER                               |                                     | 12388-1               | 12388-2  | 12388-3  |
| TCLP Extraction, Volatiles (ZHE) (1311) |                                     |                       |          |          |
| Phases                                  |                                     | 1                     | 1        | 1        |
| % that passes 9.5 mm sieve              |                                     | 100 %                 | 100 %    | 100 %    |
| Dilution Factor                         |                                     | 1311                  | 1311     | 1311     |
| Prep Date                               |                                     | 12.26.02              | 12.26.02 | 12.26.02 |
| Prep Method                             |                                     | TCLP059               | TCLP059  | TCLP059  |
| Analyst                                 |                                     | BT                    | BT       | BT       |

DATE: 12/19/02 PAGE: 1 OF 1

PROJECT MANAGER: Claude E. Horn

|          |                       |                      |
|----------|-----------------------|----------------------|
| COMPANY: | PNM                   | 37000000000000000000 |
| ADDRESS: | 2401 AZTEC NE Z110    | 370000               |
| PHONE:   | Albuquerque, NM 87102 | 370000               |
| FAX:     | 505-855-6393          | 370000               |
| BILL TO: | 505-855-6320          | 370000               |
| COMPANY: | Same                  | 370000               |
| ADDRESS: |                       | 370000               |

|         |          |       |       |
|---------|----------|-------|-------|
| Tank 84 | 12/18/12 | 12:40 | Water |
| Tank 83 | "        | 12:27 | "     |
| Tank 82 | "        | 12:32 | "     |

[illegible]

7/10/80 10:37 AM 347 SWING CEMENT

**PLEASE FILL THIS FORM IN COMPLETELY.**

|              |                                                                                                  |                                            |                                   |
|--------------|--------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------|
| PROJ. NO.    | (RUSH) <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr | <input checked="" type="checkbox"/> 1 WEEK | (NORMAL) <input type="checkbox"/> |
| PROJ. NAME:  | CERTIFICATION REQUIRED <input type="checkbox"/> NM                                               | <input type="checkbox"/> SDWA              | <input type="checkbox"/> OTHER    |
| P.O. NO.:    | METHANOL PRESERVATION <input type="checkbox"/>                                                   |                                            |                                   |
| SHIPPED VIA: | COMMENTS: FIXED FEE <input type="checkbox"/>                                                     |                                            |                                   |
| SIGNATURE    | SIGNATURE                                                                                        |                                            |                                   |
| DATE         | DATE                                                                                             |                                            |                                   |
| TIME         | TIME                                                                                             |                                            |                                   |
| PRINTED NAME | PRINTED NAME                                                                                     |                                            |                                   |
| COMPANY      | COMPANY                                                                                          |                                            |                                   |

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised March 17, 1999

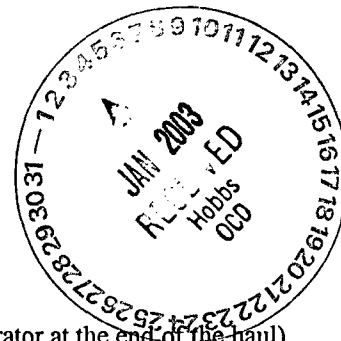
Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                  | 4. Generator <u>AGAVE Energy</u>        |
| 2. Management Facility Destination <u>Controlled Recovery Inc.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5. Originating Site <u>ARTESIA N.M.</u> |
| 3. Address of Facility Operator <u>P.O. Box 388, Hobbs</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6. Transporter <u>CRI</u>               |
| 7. Location of Material (Street Address or ULSTR) <u>105 S. 4th St.</u><br><u>ARTESIA N.M.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8. State <u>New Mexico</u>              |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                         |

BRIEF DESCRIPTION OF MATERIAL:

Used Engine Oil Filters



Estimated Volume 10 yds / mo. cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Larry Parker TITLE: Rep DATE: 12-26-02  
Waste Management Facility Authorized Agent  
TYPE OR PRINT NAME: Larry Parker TELEPHONE NO: 505-393-1079

(This space for State Use)

APPROVED BY: [Signature] TITLE: Enviro ENGR DATE: 1/6/03  
APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 1/10/03

2-50010

12/26/2002 09:58

15053933615

CONTROLLED RECOVERY

PAGE 02/02

**CERTIFICATE OF WASTE STATUS  
NON-EXEMPT WASTE MATERIAL  
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR AGAVE ENERGY / YATES PetroleumADDRESS 105 S 4<sup>th</sup> St. ARTESIA NMGENERATING SITE ARTESIA OperationsCOUNTY Eddy STATE NMTYPE OF WASTE FILTERSESTIMATED VOLUME 10 yards / mo.GENERATING PROCESS Plant & Compressor Operations

REMARKS \_\_\_\_\_

NMOCD FACILITY Controlled RecoveryTRUCKING COMPANY CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT 

SIGNATURE

NAME Robert G. EASTES

PRINTED

ADDRESS 105 S 4<sup>th</sup> StreetARTESIA, N.M. 88210DATE 1-2-03

DEC 20 '02 13:17 TO-15057484578

FROM-ASSAIGAI LABS

T-732 P.02/02 F-289

NOV 18 '02 11:34 TO-15054572146

FROM-ASSAIGAI LABS

T-558 P.02/02 F-990

2400 JEFFERSON, S.E.  
ALBUQUERQUE, NEW MEXICO 87102  
(505) 255-0001  
3022 WEST OAKWOOD  
EL PASO, TEXAS 79905  
(915) 835-0000

# Chain of Custody Record

15054572146 26 NOV 02

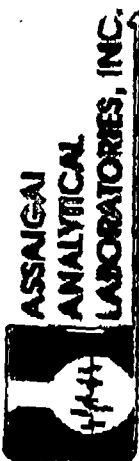
Page 1 of 1

Project Manager / Contact: Bill Tippet

Telephone No. 505-748-6817

Fax No. 505-748-505457-2146

Signature: Bill Tippet



Client: Agave Energy Co.

Address: 1055 4th

City/State/Zip: Artesia NM 88210

Project Name / Number: Filter Sample

Container / Purchase Order / Invoice: \_\_\_\_\_

| Sample ID | Sample Description | Sample Type | Quantity | Unit | Container | Seal | Signature   | Date     | Remarks                   |
|-----------|--------------------|-------------|----------|------|-----------|------|-------------|----------|---------------------------|
| 1         | Engine oil Filter  | Solid       | 1        | EA   | 1         | 1    | Bill Tippet | 11/18/02 | Agave Energy Co. Shipping |
| 2         |                    |             |          |      |           |      |             |          |                           |
| 3         |                    |             |          |      |           |      |             |          |                           |
| 4         |                    |             |          |      |           |      |             |          |                           |
| 5         |                    |             |          |      |           |      |             |          |                           |
| 6         |                    |             |          |      |           |      |             |          |                           |
| 7         |                    |             |          |      |           |      |             |          |                           |
| 8         |                    |             |          |      |           |      |             |          |                           |
| 9         |                    |             |          |      |           |      |             |          |                           |
| 10        |                    |             |          |      |           |      |             |          |                           |
| 11        |                    |             |          |      |           |      |             |          |                           |
| 12        |                    |             |          |      |           |      |             |          |                           |
| 13        |                    |             |          |      |           |      |             |          |                           |
| 14        |                    |             |          |      |           |      |             |          |                           |
| 15        |                    |             |          |      |           |      |             |          |                           |
| 16        |                    |             |          |      |           |      |             |          |                           |
| 17        |                    |             |          |      |           |      |             |          |                           |
| 18        |                    |             |          |      |           |      |             |          |                           |
| 19        |                    |             |          |      |           |      |             |          |                           |
| 20        |                    |             |          |      |           |      |             |          |                           |
| 21        |                    |             |          |      |           |      |             |          |                           |
| 22        |                    |             |          |      |           |      |             |          |                           |
| 23        |                    |             |          |      |           |      |             |          |                           |
| 24        |                    |             |          |      |           |      |             |          |                           |
| 25        |                    |             |          |      |           |      |             |          |                           |
| 26        |                    |             |          |      |           |      |             |          |                           |
| 27        |                    |             |          |      |           |      |             |          |                           |
| 28        |                    |             |          |      |           |      |             |          |                           |
| 29        |                    |             |          |      |           |      |             |          |                           |
| 30        |                    |             |          |      |           |      |             |          |                           |
| 31        |                    |             |          |      |           |      |             |          |                           |
| 32        |                    |             |          |      |           |      |             |          |                           |
| 33        |                    |             |          |      |           |      |             |          |                           |
| 34        |                    |             |          |      |           |      |             |          |                           |
| 35        |                    |             |          |      |           |      |             |          |                           |
| 36        |                    |             |          |      |           |      |             |          |                           |
| 37        |                    |             |          |      |           |      |             |          |                           |
| 38        |                    |             |          |      |           |      |             |          |                           |
| 39        |                    |             |          |      |           |      |             |          |                           |
| 40        |                    |             |          |      |           |      |             |          |                           |
| 41        |                    |             |          |      |           |      |             |          |                           |
| 42        |                    |             |          |      |           |      |             |          |                           |
| 43        |                    |             |          |      |           |      |             |          |                           |
| 44        |                    |             |          |      |           |      |             |          |                           |
| 45        |                    |             |          |      |           |      |             |          |                           |
| 46        |                    |             |          |      |           |      |             |          |                           |
| 47        |                    |             |          |      |           |      |             |          |                           |
| 48        |                    |             |          |      |           |      |             |          |                           |
| 49        |                    |             |          |      |           |      |             |          |                           |
| 50        |                    |             |          |      |           |      |             |          |                           |

LABORATORY

DEC 20 '02 13:13 TO-15057484576

FROM-ASSAIGAI LABS

T-730 P.01/02 F-289

**ASSAIGAI  
ANALYTICAL  
LABORATORIES, INC.**

P.O. Box 90430 • Albuquerque, New Mexico 87199 • (505) 345-8964 • FAX (505) 345-7269

3332 Wedgewood, Ste. N • El Paso, Texas 79926 • (915) 593-6000 • FAX (915) 593-7820

127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 652-2858

**Explanation of codes**

|     |                                  |
|-----|----------------------------------|
| B   | analyte detected in Method Blank |
| E   | result is estimated              |
| H   | analyzed out of hold time        |
| N   | tentatively identified compound  |
| S   | subcontracted                    |
| 1-9 | see footnote                     |

**AGAVE ENERGY CO.**attn: **BILL TIPPY****105 S. 4TH****ARTESIA****NM 88210**

STANDARD

Assaigai Analytical Laboratories, Inc.

**Certificate of Analysis**Client: **AGAVE ENERGY CO.**Project: **FILTER SAMPLE**Order: **0211671 AGA01**Receipt: **11-27-02**

William P. Blawie, President of Assaigai Analytical Laboratories, Inc.

Sample: **#1 ENGINE OIL FILTER**

Collected:

By: **BT**Matrix: **SOLID**

| QC Group    | Run Sequence    | CAS #                                      | Analyte    | Result | Units   | Dilution Factor | Detection Limit | Code           | Prep Date | Run Date |
|-------------|-----------------|--------------------------------------------|------------|--------|---------|-----------------|-----------------|----------------|-----------|----------|
| 0211671-01A |                 | SW846 1010                                 |            |        |         |                 |                 | By: <b>RAC</b> |           |          |
| SFL0237     | WC.2002.1079.4  |                                            | Flashpoint | > 60   | Deg C   | 1               | 20              |                | 12-11-02  | 12-11-02 |
| 0211671-01A |                 | SW846 5030A/5021B Purgeable VOCs by GC/PID |            |        |         |                 |                 | By: <b>JDR</b> |           |          |
| X02503      | XG.2002.2030.3  | 71-43-2                                    | Benzene    | ND     | mg / Kg | 20              | 0.005           | 1              | 12-05-02  | 12-05-02 |
| 0211671-01B |                 | SW846 1311/3010A/6010A ICP TCLP            |            |        |         |                 |                 | By: <b>JRE</b> |           |          |
| M021657     | MT.2002.1404.86 | 7440-38-2                                  | Arsenic    | ND     | mg / L  | 1               | 0.1             |                | 12-03-02  | 12-09-02 |
| M021657     | MT.2002.1404.86 | 7440-39-3                                  | Barium     | 0.2    | mg / L  | 1               | 0.1             |                | 12-03-02  | 12-09-02 |
| M021657     | MT.2002.1404.86 | 7440-43-9                                  | Cadmium    | ND     | mg / L  | 1               | 0.02            |                | 12-03-02  | 12-09-02 |
| M021710     | MT.2002.1440.93 | 7440-47-3                                  | Chromium   | ND     | mg / L  | 1               | 0.02            |                | 12-16-02  | 12-16-02 |
| M021667     | MT.2002.1404.86 | 7490-92-1                                  | Lead       | ND     | mg / L  | 1               | 0.05            |                | 12-03-02  | 12-09-02 |
| M021667     | MT.2002.1404.86 | 7782-49-2                                  | Selenium   | ND     | mg / L  | 1               | 0.05            |                | 12-03-02  | 12-09-02 |
| M021710     | MT.2002.1440.93 | 7440-22-4                                  | Silver     | ND     | mg / L  | 1               | 0.04            |                | 12-16-02  | 12-16-02 |
| 0211671-01B |                 | SW846 1311/7470 CVAA TCLP                  |            |        |         |                 |                 | By: <b>JRE</b> |           |          |
| M021665     | MT.2002.1386.30 | 7439-97-6                                  | Mercury    | ND     | mg / L  | 1               | 0.0002          |                | 12-06-02  | 12-05-02 |

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

1 Sample was received with headspace in an improper container.

MAIN Please note that the sample was received in a box with no ice.

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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

MAY 27 2003

OIL CONSERVATION  
DIVISION

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><br>Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator: Conoco Phillips<br><br>5. Originating Site: CR 4000 South of SJ 32-7 #222 |
| 2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6. Transporter: TBA                                                                     |
| 3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8. State: New Mexico                                                                    |
| 7. Location of Material (Street Address or ULSTR) "H" Sec 20, T32N, R7W, SJC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Project #96052-033                                                                      |
| 9. <u>Circle One</u> :<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br><br>All transporters must certify the wastes delivered are only those consigned for transport. |                                                                                         |

### BRIEF DESCRIPTION OF MATERIAL:

Oil stained road dirt of an unknown source.

CWS and TCLP attached.

Estimated Volume .5 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE Landrea R. Jackson TITLE: Environmental Administrative Assistant DATE: 05/20/03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615

(This space for State Use)

APPROVED BY: Denny Faint TITLE: Enviro/Eng DATE: 5/23/03  
APPROVED BY: Monty J. H. TITLE: Environmental Geologist DATE: 5/20/03



96052-033



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**  
Cabinet Secretary

**Lori Wrotenbery**

Director

**Oil Conservation Division**

## CERTIFICATE OF WASTE STATUS

|                                                                                                                                                                             |                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>1. Generator Name and Address</b><br>ConocoPhillips Company<br>5525 Highway 64<br>Farmington, NM 87401                                                                   | <b>2. Destination Name:</b><br>Envirotech Inc. Soil Remediation Facility<br>Landfarm #2<br>Hilltop, New Mexico |
| <b>3. Originating Site (name):</b><br>CR 4000 South of SJ 32-7 #222<br>Unit H, Sec. 20, T32N, R7W<br>San Juan County, NM<br>attach list of originating sites as appropriate | <b>Location of the Waste (Street address &amp;/or ULSTR):</b>                                                  |
| <b>4. Source and Description of Waste</b><br>Oil stained road dirt - 1/2 cubic yard (20 sand bags)<br>- Unknown source                                                      |                                                                                                                |

I, Monica D. Rodahl representative for :  
 Print Name

ConocoPhillips Company do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

☐ EXEMPT oilfield waste

☒ NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

☐ MSDS Information

☐ Other (description)

☒ RCRA Hazardous Waste Analysis

☒ Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Monica D. Rodahl

Title: HSE Technician

Date: 5-16-03

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

## SUSPECTED HAZARDOUS WASTE ANALYSIS

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | ConocoPhillips  | Project #:        | 96052-026 |
| Sample ID:     | 32-7 Unit Road  | Date Reported:    | 05-19-03  |
| Lab ID#:       | 25680           | Date Sampled:     | 05-16-03  |
| Sample Matrix: | Soil            | Date Received:    | 05-16-03  |
| Preservative:  | Cool            | Date Analyzed:    | 05-16-03  |
| Condition:     | Cool and Intact | Chain of Custody: | 10940     |

| Parameter | Result |
|-----------|--------|
|-----------|--------|

IGNITABILITY: Negative

CORROSIVITY: Negative pH = 8.93

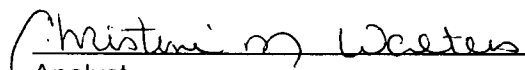
REACTIVITY: Negative

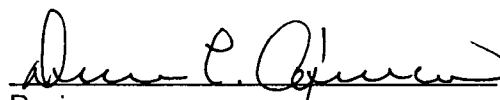
### RCRA Hazardous Waste Criteria

|               |                                                                                                                                                                                                                               |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter     | Hazardous Waste Criterion                                                                                                                                                                                                     |
| IGNITABILITY: | Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21.<br>(i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)                                                                 |
| CORROSIVITY:  | Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22.<br>(i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)                                                                        |
| REACTIVITY:   | Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23.<br>(i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5) |

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: CR 4900, Farmington, NM.

  
Analyst

  
Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

|                    |                  |                     |           |
|--------------------|------------------|---------------------|-----------|
| Client:            | ConocoPhillips   | Project #:          | 96052-026 |
| Sample ID:         | 32 - 7 Unit Road | Date Reported:      | 05-19-03  |
| Laboratory Number: | 25680            | Date Sampled:       | 05-16-03  |
| Chain of Custody:  | 10940            | Date Received:      | 05-16-03  |
| Sample Matrix:     | TCLP Extract     | Date Extracted:     | 05-16-03  |
| Preservative:      | Cool             | Date Analyzed:      | 05-19-03  |
| Condition:         | Cool & Intact    | Analysis Requested: | TCLP      |

| Parameter            | Concentration<br>(mg/L) | Detection<br>Limit<br>(mg/L) | Regulatory<br>Limits<br>(mg/L) |
|----------------------|-------------------------|------------------------------|--------------------------------|
| Vinyl Chloride       | ND                      | 0.0001                       | 0.2                            |
| 1,1-Dichloroethene   | ND                      | 0.0001                       | 0.7                            |
| 2-Butanone (MEK)     | ND                      | 0.0001                       | 200                            |
| Chloroform           | ND                      | 0.0001                       | 6.0                            |
| Carbon Tetrachloride | ND                      | 0.0001                       | 0.5                            |
| Benzene              | ND                      | 0.0001                       | 0.5                            |
| 1,2-Dichloroethane   | ND                      | 0.0001                       | 0.5                            |
| Trichloroethene      | ND                      | 0.0003                       | 0.5                            |
| Tetrachloroethene    | ND                      | 0.0005                       | 0.7                            |
| Chlorobenzene        | ND                      | 0.0003                       | 100                            |
| 1,4-Dichlorobenzene  | ND                      | 0.0002                       | 7.5                            |

ND - Parameter not detected at the stated detection limit.

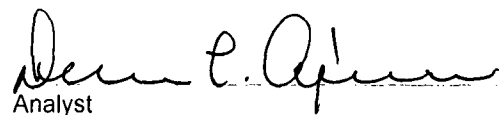
### QA/QC Acceptance Criteria

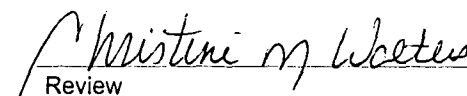
| Parameter            | Percent Recovery |
|----------------------|------------------|
| Fluorobenzene        | 100%             |
| 1,4-difluorobenzene  | 100%             |
| 4-bromochlorobenzene | 100%             |

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: CR 4900, Farmington, NM.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040

PHENOLS

|                    |                  |                     |           |
|--------------------|------------------|---------------------|-----------|
| Client:            | ConocoPhillips   | Project #:          | 96052-026 |
| Sample ID:         | 32 - 7 Unit Road | Date Reported:      | 05-19-03  |
| Laboratory Number: | 25680            | Date Sampled:       | 05-16-03  |
| Chain of Custody:  | 10940            | Date Received:      | 05-16-03  |
| Sample Matrix:     | TCLP Extract     | Date Extracted:     | 05-16-03  |
| Preservative:      | Cool             | Date Analyzed:      | 05-19-03  |
| Condition:         | Cool & Intact    | Analysis Requested: | TCLP      |

| Parameter             | Concentration<br>(mg/L) | Detection<br>Limit<br>(mg/L) | Regulatory<br>Limit<br>(mg/L) |
|-----------------------|-------------------------|------------------------------|-------------------------------|
| o-Cresol              | ND                      | 0.020                        | 200                           |
| p,m-Cresol            | ND                      | 0.040                        | 200                           |
| 2,4,6-Trichlorophenol | ND                      | 0.020                        | 2.0                           |
| 2,4,5-Trichlorophenol | ND                      | 0.020                        | 400                           |
| Pentachlorophenol     | ND                      | 0.020                        | 100                           |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter            | Percent Recovery |
|-----------------------|----------------------|------------------|
|                       | 2-Fluorophenol       | 99%              |
|                       | 2,4,6-Tribromophenol | 99%              |

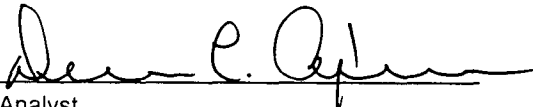
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

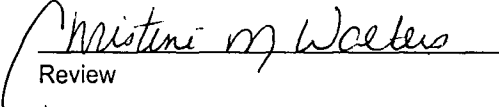
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: CR 4900, Farmington, NM.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics

|                    |                  |                     |           |
|--------------------|------------------|---------------------|-----------|
| Client:            | ConocoPhillips   | Project #:          | 96052-026 |
| Sample ID:         | 32 - 7 Unit Road | Date Reported:      | 05-19-03  |
| Laboratory Number: | 25680            | Date Sampled:       | 05-16-03  |
| Chain of Custody:  | 10940            | Date Received:      | 05-16-03  |
| Sample Matrix:     | TCLP Extract     | Date Extracted:     | 05-16-03  |
| Preservative:      | Cool             | Date Analyzed:      | 05-19-03  |
| Condition:         | Cool and Intact  | Analysis Requested: | TCLP      |

| Parameter           | Concentration<br>(mg/L) | Det.<br>Limit<br>(mg/L) | Regulatory<br>Limit<br>(mg/L) |
|---------------------|-------------------------|-------------------------|-------------------------------|
| Pyridine            | ND                      | 0.020                   | 5.0                           |
| Hexachloroethane    | ND                      | 0.020                   | 3.0                           |
| Nitrobenzene        | ND                      | 0.020                   | 2.0                           |
| Hexachlorobutadiene | ND                      | 0.020                   | 0.5                           |
| 2,4-Dinitrotoluene  | ND                      | 0.020                   | 0.13                          |
| HexachloroBenzene   | ND                      | 0.020                   | 0.13                          |

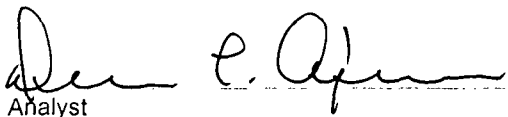
ND - Parameter not detected at the stated detection limit.

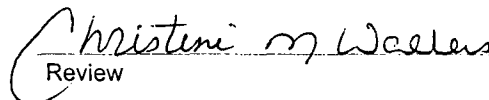
| QA/QC Acceptance Criteria | Parameter        | Percent Recovery |
|---------------------------|------------------|------------------|
|                           | 2-fluorobiphenyl | 99%              |

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: CR 4900, Farmington, NM.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

**EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS**

|                    |                  |                  |             |
|--------------------|------------------|------------------|-------------|
| Client:            | ConocoPhillips   | Project #:       | 96052-026   |
| Sample ID:         | 32 - 7 Unit Road | Date Reported:   | 05-19-03    |
| Laboratory Number: | 25680            | Date Sampled:    | 05-16-03    |
| Chain of Custody:  | 10940            | Date Received:   | 05-16-03    |
| Sample Matrix:     | TCLP Extract     | Date Analyzed:   | 05-19-03    |
| Preservative:      | Cool             | Date Extracted:  | 05-16-03    |
| Condition:         | Cool & Intact    | Analysis Needed: | TCLP metals |

| Parameter | Concentration<br>(mg/L) | Det.<br>Limit<br>(mg/L) | Regulatory<br>Level<br>(mg/L) |
|-----------|-------------------------|-------------------------|-------------------------------|
| Arsenic   | 0.003                   | 0.001                   | 5.0                           |
| Barium    | 1.61                    | 0.001                   | 100                           |
| Cadmium   | 0.001                   | 0.001                   | 1.0                           |
| Chromium  | 0.001                   | 0.001                   | 5.0                           |
| Lead      | ND                      | 0.001                   | 5.0                           |
| Mercury   | ND                      | 0.001                   | 0.2                           |
| Selenium  | 0.001                   | 0.001                   | 1.0                           |
| Silver    | ND                      | 0.001                   | 5.0                           |

ND - Parameter not detected at the stated detection limit.

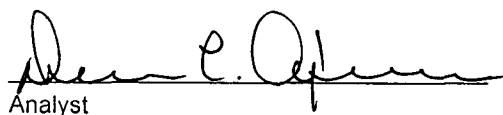
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

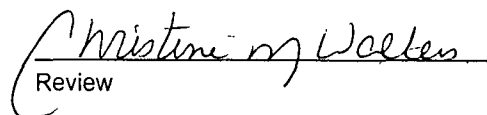
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission SW-846, USEPA. December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **CR 4900, Farmington, NM.**

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

**QUALITY ASSURANCE / QUALITY CONTROL**

**DOCUMENTATION**



# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
Quality Assurance Report

|                    |                  |                     |          |
|--------------------|------------------|---------------------|----------|
| Client:            | QA/QC            | Project #:          | N/A      |
| Sample ID:         | Laboratory Blank | Date Reported:      | 05-19-03 |
| Laboratory Number: | 05-19-TCV        | Date Sampled:       | N/A      |
| Sample Matrix:     | Water            | Date Received:      | N/A      |
| Preservative:      | N/A              | Date Analyzed:      | 05-19-03 |
| Condition:         | N/A              | Analysis Requested: | TCLP     |

| Parameter            | Concentration<br>(mg/L) | Detection<br>Limit<br>(mg/L) | Regulatory<br>Limits<br>(mg/L) |
|----------------------|-------------------------|------------------------------|--------------------------------|
| Vinyl Chloride       | ND                      | 0.0001                       | 0.2                            |
| 1,1-Dichloroethene   | ND                      | 0.0001                       | 0.7                            |
| 2-Butanone (MEK)     | ND                      | 0.0001                       | 200                            |
| Chloroform           | ND                      | 0.0001                       | 6.0                            |
| Carbon Tetrachloride | ND                      | 0.0001                       | 0.5                            |
| Benzene              | ND                      | 0.0001                       | 0.5                            |
| 1,2-Dichloroethane   | ND                      | 0.0001                       | 0.5                            |
| Trichloroethene      | ND                      | 0.0003                       | 0.5                            |
| Tetrachloroethene    | ND                      | 0.0005                       | 0.7                            |
| Chlorobenzene        | ND                      | 0.0003                       | 100                            |
| 1,4-Dichlorobenzene  | ND                      | 0.0002                       | 7.5                            |

ND - Parameter not detected at the stated detection limit.

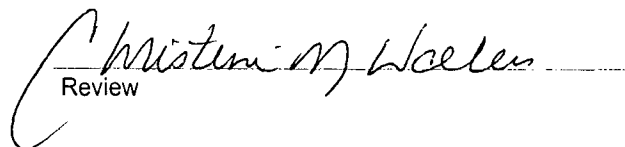
| QA/QC Acceptance Criteria | Parameter            | Percent Recovery |
|---------------------------|----------------------|------------------|
|                           | Fluorobenzene        | 100%             |
|                           | 1,4-difluorobenzene  | 100%             |
|                           | 4-bromochlorobenzene | 100%             |

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample 25680.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
Quality Assurance Report

|                    |              |                     |          |
|--------------------|--------------|---------------------|----------|
| Client:            | QA/QC        | Project #:          | N/A      |
| Sample ID:         | Method Blank | Date Reported:      | 05-19-03 |
| Laboratory Number: | 05-19-TCV    | Date Sampled:       | N/A      |
| Sample Matrix:     | TCLP Extract | Date Received:      | N/A      |
| Preservative:      | N/A          | Date Analyzed:      | 05-19-03 |
| Condition:         | N/A          | Date Extracted:     | 05-16-03 |
|                    |              | Analysis Requested: | TCLP     |

| Parameter            | Concentration<br>(mg/L) | Detection<br>Limit<br>(mg/L) | Regulatory<br>Limits<br>(mg/L) |
|----------------------|-------------------------|------------------------------|--------------------------------|
| Vinyl Chloride       | ND                      | 0.0001                       | 0.2                            |
| 1,1-Dichloroethene   | ND                      | 0.0001                       | 0.7                            |
| 2-Butanone (MEK)     | ND                      | 0.0001                       | 200                            |
| Chloroform           | ND                      | 0.0001                       | 6.0                            |
| Carbon Tetrachloride | ND                      | 0.0001                       | 0.5                            |
| Benzene              | ND                      | 0.0001                       | 0.5                            |
| 1,2-Dichloroethane   | ND                      | 0.0001                       | 0.5                            |
| Trichloroethene      | ND                      | 0.0003                       | 0.5                            |
| Tetrachloroethene    | ND                      | 0.0005                       | 0.7                            |
| Chlorobenzene        | ND                      | 0.0003                       | 100                            |
| 1,4-Dichlorobenzene  | ND                      | 0.0002                       | 7.5                            |

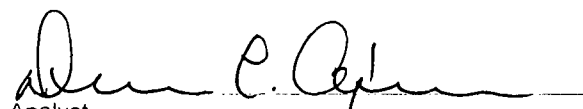
ND - Parameter not detected at the stated detection limit.

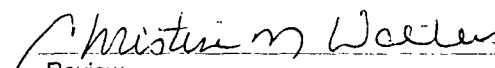
| QA/QC Acceptance Criteria | Parameter            | Percent Recovery |
|---------------------------|----------------------|------------------|
|                           | Fluorobenzene        | 99%              |
|                           | 1,4-difluorobenzene  | 98%              |
|                           | 4-bromochlorobenzene | 98%              |

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample 25680.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
QUALITY ASSURANCE REPORT

Client: QA/QC  
Sample ID: Matrix Duplicate  
Laboratory Number: 25680  
Sample Matrix: TCLP Extract  
Analysis Requested: TCLP  
Condition: N/A

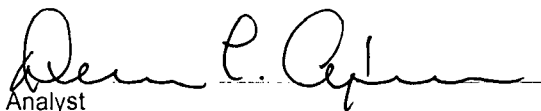
Project #: N/A  
Date Reported: 05-19-03  
Date Sampled: N/A  
Date Received: N/A  
Date Analyzed: 05-19-03  
Date Extracted: 05-16-03

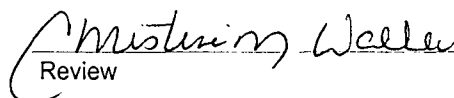
| Parameter            | Sample<br>Result<br>(mg/L) | Duplicate<br>Sample<br>Result<br>(mg/L) | Detection<br>Limits<br>(mg/L) | Percent<br>Difference |
|----------------------|----------------------------|-----------------------------------------|-------------------------------|-----------------------|
| Vinyl Chloride       | ND                         | ND                                      | 0.0001                        | 0.0%                  |
| 1,1-Dichloroethene   | ND                         | ND                                      | 0.0001                        | 0.0%                  |
| 2-Butanone (MEK)     | ND                         | ND                                      | 0.0001                        | 0.0%                  |
| Chloroform           | ND                         | ND                                      | 0.0001                        | 0.0%                  |
| Carbon Tetrachloride | ND                         | ND                                      | 0.0001                        | 0.0%                  |
| Benzene              | ND                         | ND                                      | 0.0001                        | 0.0%                  |
| 1,2-Dichloroethane   | ND                         | ND                                      | 0.0001                        | 0.0%                  |
| Trichloroethene      | ND                         | ND                                      | 0.0003                        | 0.0%                  |
| Tetrachloroethene    | ND                         | ND                                      | 0.0005                        | 0.0%                  |
| Chlorobenzene        | ND                         | ND                                      | 0.0003                        | 0.0%                  |
| 1,4-Dichlorobenzene  | ND                         | ND                                      | 0.0002                        | 0.0%                  |

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for sample 25680.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

**EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
QUALITY ASSURANCE REPORT**

Client: QA/QC  
Sample ID: Matrix Spike  
Laboratory Number: 25680  
Sample Matrix: TCLP Extract  
Analysis Requested: TCLP  
Condition: N/A

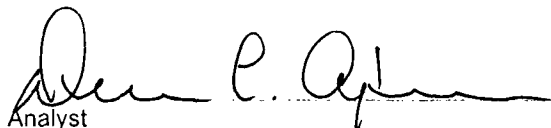
Project #: N/A  
Date Reported: 05-19-03  
Date Sampled: N/A  
Date Received: N/A  
Date Analyzed: 05-19-03  
Date Extracted: 05-16-03

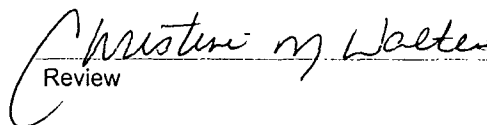
| Parameter            | Sample Result<br>(mg/L) | Spike Added<br>(mg/L) | Spiked Sample Result<br>(mg/L) | Det. Limit<br>(mg/L) | Percent Recovery | SW-846<br>% Rec. Accept. Range |
|----------------------|-------------------------|-----------------------|--------------------------------|----------------------|------------------|--------------------------------|
| Vinyl Chloride       | ND                      | 0.050                 | 0.0495                         | 0.0001               | 99.0%            | 28-163                         |
| 1,1-Dichloroethene   | ND                      | 0.050                 | 0.0494                         | 0.0001               | 98.8%            | 43-143                         |
| 2-Butanone (MEK)     | ND                      | 0.050                 | 0.0498                         | 0.0001               | 99.6%            | 47-132                         |
| Chloroform           | ND                      | 0.050                 | 0.0500                         | 0.0001               | 100.0%           | 49-133                         |
| Carbon Tetrachloride | ND                      | 0.050                 | 0.0490                         | 0.0001               | 98.0%            | 43-143                         |
| Benzene              | ND                      | 0.050                 | 0.0498                         | 0.0001               | 99.6%            | 39-150                         |
| 1,2-Dichloroethane   | ND                      | 0.050                 | 0.0490                         | 0.0001               | 98.0%            | 51-147                         |
| Trichloroethene      | ND                      | 0.050                 | 0.0495                         | 0.0003               | 99.0%            | 35-146                         |
| Tetrachloroethene    | ND                      | 0.050                 | 0.0495                         | 0.0005               | 99.0%            | 26-162                         |
| Chlorobenzene        | ND                      | 0.050                 | 0.0495                         | 0.0003               | 99.0%            | 38-150                         |
| 1,4-Dichlorobenzene  | ND                      | 0.050                 | 0.0495                         | 0.0002               | 99.0%            | 42-143                         |

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for sample 25680.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040

PHENOLS

Quality Assurance Report

Laboratory Blank

|                    |                  |                     |          |
|--------------------|------------------|---------------------|----------|
| Client:            | QA/QC            | Project #:          | N/A      |
| Sample ID:         | Laboratory Blank | Date Reported:      | 05-19-03 |
| Laboratory Number: | 15-19-TCA        | Date Sampled:       | N/A      |
| Sample Matrix:     | 2-Propanol       | Date Received:      | N/A      |
| Preservative:      | N/A              | Date Analyzed:      | 05-19-03 |
| Condition:         | N/A              | Analysis Requested: | TCLP     |

## Analytical Results

| Parameter             | Concentration<br>(mg/L) | Detection<br>Limit<br>(mg/L) | Regulatory<br>Limit<br>(mg/L) |
|-----------------------|-------------------------|------------------------------|-------------------------------|
| o-Cresol              | ND                      | 0.020                        | 200                           |
| p,m-Cresol            | ND                      | 0.040                        | 200                           |
| 2,4,6-Trichlorophenol | ND                      | 0.020                        | 2.0                           |
| 2,4,5-Trichlorophenol | ND                      | 0.020                        | 400                           |
| Pentachlorophenol     | ND                      | 0.020                        | 100                           |

ND - Parameter not detected at the stated detection limit.

## Surrogate Recoveries:

| Parameter            | Percent Recovery |
|----------------------|------------------|
| 2-fluorophenol       | 98 %             |
| 2,4,6-tribromophenol | 99 %             |

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

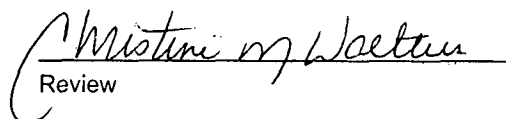
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample 25680.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8040 PHENOLS Quality Assurance Report

|                    |               |                     |          |
|--------------------|---------------|---------------------|----------|
| Client:            | QA/QC         | Project #:          | N/A      |
| Sample ID:         | Method Blank  | Date Reported:      | 05-19-03 |
| Laboratory Number: | 05-19-TCA     | Date Sampled:       | N/A      |
| Sample Matrix:     | TCLP Extract  | Date Received:      | N/A      |
| Preservative:      | Cool          | Date Extracted:     | 05-16-03 |
| Condition:         | Cool & Intact | Date Analyzed:      | 05-19-03 |
|                    |               | Analysis Requested: | TCLP     |

| Parameter             | Concentration<br>(mg/L) | Det.<br>Limit<br>(mg/L) | Regulatory<br>Limit<br>(mg/L) |
|-----------------------|-------------------------|-------------------------|-------------------------------|
| o-Cresol              | ND                      | 0.020                   | 200                           |
| p,m-Cresol            | ND                      | 0.040                   | 200                           |
| 2,4,6-Trichlorophenol | ND                      | 0.020                   | 2.0                           |
| 2,4,5-Trichlorophenol | ND                      | 0.020                   | 400                           |
| Pentachlorophenol     | ND                      | 0.020                   | 100                           |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter            | Percent Recovery |
|-----------------------|----------------------|------------------|
|                       | 2-Fluorophenol       | 99%              |
|                       | 2,4,6-Tribromophenol | 99%              |

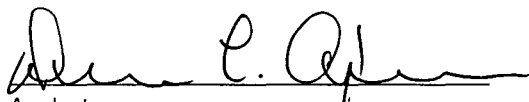
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

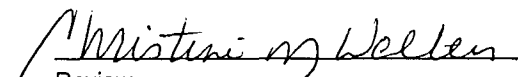
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample 25680.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8040 PHENOLS Quality Assurance Report

|                    |                  |                     |          |
|--------------------|------------------|---------------------|----------|
| Client:            | QA/QC            | Project #:          | N/A      |
| Sample ID:         | Matrix Duplicate | Date Reported:      | 05-19-03 |
| Laboratory Number: | 25680            | Date Sampled:       | N/A      |
| Sample Matrix:     | TCLP Extract     | Date Received:      | N/A      |
| Preservative:      | Cool             | Date Extracted:     | 05-16-03 |
| Condition:         | Cool & Intact    | Date Analyzed:      | 05-19-03 |
|                    |                  | Analysis Requested: | TCLP     |

| Parameter             | Sample Result (mg/L) | Duplicate Result (mg/L) | Detection Limit (mg/L) | Percent Difference |
|-----------------------|----------------------|-------------------------|------------------------|--------------------|
| o-Cresol              | ND                   | ND                      | 0.020                  | 0.0%               |
| p,m-Cresol            | ND                   | ND                      | 0.040                  | 0.0%               |
| 2,4,6-Trichlorophenol | ND                   | ND                      | 0.020                  | 0.0%               |
| 2,4,5-Trichlorophenol | ND                   | ND                      | 0.020                  | 0.0%               |
| Pentachlorophenol     | ND                   | ND                      | 0.020                  | 0.0%               |

ND - Parameter not detected at the stated detection limit.

| QA/QC Acceptance Criteria: | Parameter      | Maximum Difference |
|----------------------------|----------------|--------------------|
|                            | 8040 Compounds | 30.0%              |

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

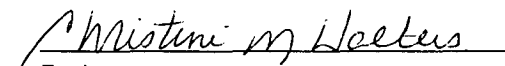
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample 25680.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
Quality Assurance Report

|                    |                  |                     |          |
|--------------------|------------------|---------------------|----------|
| Client:            | QA/QC            | Project #:          | N/A      |
| Sample ID:         | Laboratory Blank | Date Reported:      | 05-19-03 |
| Laboratory Number: | 05-19-TBN        | Date Sampled:       | N/A      |
| Sample Matrix:     | Hexane           | Date Received:      | N/A      |
| Preservative:      | N/A              | Date Extracted:     | N/A      |
| Condition:         | N/A              | Date Analyzed:      | 05-19-03 |
|                    |                  | Analysis Requested: | TCLP     |

| Parameter           | Concentration<br>(mg/L) | Det.<br>Limit<br>(mg/L) | Regulatory<br>Limit<br>(mg/L) |
|---------------------|-------------------------|-------------------------|-------------------------------|
| Pyridine            | ND                      | 0.020                   | 5.0                           |
| Hexachloroethane    | ND                      | 0.020                   | 3.0                           |
| Nitrobenzene        | ND                      | 0.020                   | 2.0                           |
| Hexachlorobutadiene | ND                      | 0.020                   | 0.5                           |
| 2,4-Dinitrotoluene  | ND                      | 0.020                   | 0.13                          |
| HexachloroBenzene   | ND                      | 0.020                   | 0.13                          |

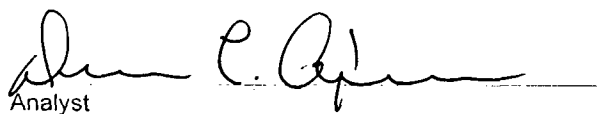
ND - Parameter not detected at the stated detection limit.

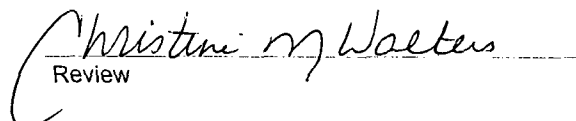
| QA/QC Acceptance Criteria | Parameter        | Percent Recovery |
|---------------------------|------------------|------------------|
|                           | 2-fluorobiphenyl | 100%             |

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample 25680.

  
Analyst

  
Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QUALITY ASSURANCE REPORT

|                    |                 |                     |          |
|--------------------|-----------------|---------------------|----------|
| Client:            | QA/QC           | Project #:          | N/A      |
| Sample ID:         | Method Blank    | Date Reported:      | 05-19-03 |
| Laboratory Number: | 05-19-TBN       | Date Sampled:       | N/A      |
| Sample Matrix:     | TCLP Extract    | Date Received:      | N/A      |
| Preservative:      | Cool            | Date Extracted:     | 05-16-03 |
| Condition:         | Cool and Intact | Date Analyzed:      | 05-19-03 |
|                    |                 | Analysis Requested: | TCLP     |

| Parameter           | Concentration<br>(mg/L) | Det.<br>Limit<br>(mg/L) | Regulatory<br>Limit<br>(mg/L) |
|---------------------|-------------------------|-------------------------|-------------------------------|
| Pyridine            | ND                      | 0.020                   | 5.0                           |
| Hexachloroethane    | ND                      | 0.020                   | 3.0                           |
| Nitrobenzene        | ND                      | 0.020                   | 2.0                           |
| Hexachlorobutadiene | ND                      | 0.020                   | 0.5                           |
| 2,4-Dinitrotoluene  | ND                      | 0.020                   | 0.13                          |
| HexachloroBenzene   | ND                      | 0.020                   | 0.13                          |

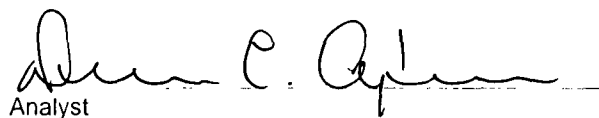
ND - Parameter not detected at the stated detection limit.

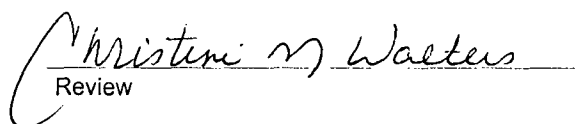
| QA/QC Acceptance Criteria | Parameter        | Percent Recovery |
|---------------------------|------------------|------------------|
|                           | 2-fluorobiphenyl | 95%              |

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample 25680.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QA/QC Matrix Duplicate Report

Client: QA/QC  
Sample ID: Matrix Duplicate  
Laboratory Number: 25680  
Sample Matrix: TCLP Extract  
Preservative: N/A  
Condition: N/A

Project #: N/A  
Date Reported: 05-19-03  
Date Sampled: N/A  
Date Received: N/A  
Date Extracted: 05-16-03  
Date Analyzed: 05-19-03  
Analysis Requested: TCLP

| Parameter           | Sample Result (mg/L) | Duplicate Result (mg/L) | Percent Difference | Det. Limit (mg/L) |
|---------------------|----------------------|-------------------------|--------------------|-------------------|
| Pyridine            | ND                   | ND                      | 0.0%               | 0.020             |
| Hexachloroethane    | ND                   | ND                      | 0.0%               | 0.020             |
| Nitrobenzene        | ND                   | ND                      | 0.0%               | 0.020             |
| Hexachlorobutadiene | ND                   | ND                      | 0.0%               | 0.020             |
| 2,4-Dinitrotoluene  | ND                   | ND                      | 0.0%               | 0.020             |
| HexachloroBenzene   | ND                   | ND                      | 0.0%               | 0.020             |

ND - Parameter not detected at the stated detection limit.

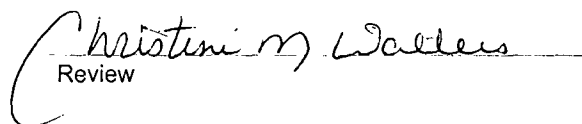
| QA/QC Acceptance Criteria | Parameter      | Maximum Difference |
|---------------------------|----------------|--------------------|
|                           | 8090 Compounds | 30%                |

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample 25680.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

**EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS  
Quality Assurance Report**

|                     |                 |                 |          |
|---------------------|-----------------|-----------------|----------|
| Client:             | QA/QC           | Project #:      | N/A      |
| Sample ID:          | 05-19-TCM QA/QC | Date Reported:  | 05-19-03 |
| Laboratory Number:  | 25680           | Date Sampled:   | N/A      |
| Sample Matrix:      | TCLP Extract    | Date Received:  | N/A      |
| Analysis Requested: | TCLP Metals     | Date Analyzed:  | 05-19-03 |
| Condition:          | N/A             | Date Extracted: | 05-16-03 |

| Blank & Duplicate<br>Conc. (mg/L) | Instrument<br>Blank | Method<br>Blank | Detection<br>Limit | Sample | Duplicate | %<br>Difference | Acceptance<br>Range |
|-----------------------------------|---------------------|-----------------|--------------------|--------|-----------|-----------------|---------------------|
| Arsenic                           | ND                  | ND              | 0.001              | 0.003  | 0.003     | 0.0%            | 0% - 30%            |
| Barium                            | ND                  | ND              | 0.001              | 1.61   | 1.62      | 0.6%            | 0% - 30%            |
| Cadmium                           | ND                  | ND              | 0.001              | 0.001  | 0.001     | 0.0%            | 0% - 30%            |
| Chromium                          | ND                  | ND              | 0.001              | 0.001  | 0.001     | 0.0%            | 0% - 30%            |
| Lead                              | ND                  | ND              | 0.001              | ND     | ND        | 0.0%            | 0% - 30%            |
| Mercury                           | ND                  | ND              | 0.001              | ND     | ND        | 0.0%            | 0% - 30%            |
| Selenium                          | ND                  | ND              | 0.001              | 0.001  | 0.001     | 0.0%            | 0% - 30%            |
| Silver                            | ND                  | ND              | 0.001              | ND     | ND        | 0.0%            | 0% - 30%            |

| Spike<br>Conc. (mg/L) | Spike<br>Added | Sample | Spiked<br>Sample | Percent<br>Recovery | Acceptance<br>Range |
|-----------------------|----------------|--------|------------------|---------------------|---------------------|
| Arsenic               | 0.500          | 0.003  | 0.502            | 99.8%               | 80% - 120%          |
| Barium                | 0.500          | 1.61   | 2.10             | 99.5%               | 80% - 120%          |
| Cadmium               | 0.500          | 0.001  | 0.500            | 99.8%               | 80% - 120%          |
| Chromium              | 0.500          | 0.001  | 0.501            | 100.0%              | 80% - 120%          |
| Lead                  | 0.500          | ND     | 0.499            | 99.8%               | 80% - 120%          |
| Mercury               | 0.050          | ND     | 0.049            | 98.0%               | 80% - 120%          |
| Selenium              | 0.500          | 0.001  | 0.500            | 99.8%               | 80% - 120%          |
| Silver                | 0.500          | ND     | 0.499            | 99.8%               | 80% - 120%          |

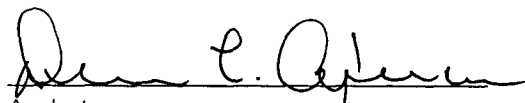
ND - Parameter not detected at the stated detection limit.

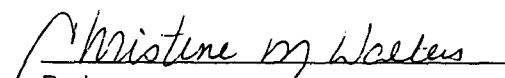
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,  
SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,  
SW-846, USEPA, December 1996.

Comments: QA/QC for sample 25680.

  
Analyst

  
Review

10940

[illegible]

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/><br><input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator R & R Service Company |
| 2. Management Facility Destination Controlled Recovery Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5. Originating Site Hobbs, NM      |
| 3. Address of Facility Operator P.O. Box 388, Hobbs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6. Transporter CRI                 |
| 7. Location of Material (Street Address or ULSTR), 1214 W Broadway, Hobbs NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8. State New Mexico                |
| 9. Circle One:<br>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.<br><input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.<br>All transporters must certify the wastes delivered are only those consigned for transport. |                                    |

### BRIEF DESCRIPTION OF MATERIAL:

RE: 04.04.03

Abandoned Waste Pit.

Approved by Bob Allen and Wayne Price

Estimated Volume 2 bbl Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE David Parsons TITLE: VP DATE: 04-21-03  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: David Parsons TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: Wayne Price TITLE: Environmental Eng DATE: 4-25-03  
APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

Denied by Wayne Price for the following reasons: The waste contains listed RCRA Hazardous waste constituents; Acetone, 1,1,2-Trichloroethane, Naphthalene, and xylene. Please have the NMED-Haz waste div. Concur that this waste would not be classified as Hazardous waste.

## FAX COVER SHEET



Safety &amp; Environmental Solutions, Inc.

P.O. Box 1613  
703 E. Clinton Suite 103  
Hobbs, New Mexico  
88240  
505/397-0510  
Fax 505/393-4388

|                             |                               |
|-----------------------------|-------------------------------|
| Send to: <b>KEN MAESH</b>   | From: <b>Bob Allen</b>        |
| Attention:                  | Date: <b>cf-21-03</b>         |
| Office Location:            | Office Location:              |
| Fax Number: <b>393-3615</b> | Phone Number: <b>390-7063</b> |
|                             |                               |

- ☐ Urgent
- ☐ Reply ASAP
- ☐ Please comment
- ☐ Please review
- ☐ For your information

Total pages, including cover:

Comments:

Ken - let me know  
only a barrel or two  
B

## CERTIFICATE OF WASTE STATUS

### Non-Exempt Waste Material

ORIGINATION LOCATION: R & R Service Company

SOURCE: Abandoned Waste Pit

DISPOSAL LOCATION: Controlled Recovery, Inc.

As a condition of acceptance for disposal, I hereby certify that this waste is non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3.

I, the undersigned as the agent for R & R Service Company concur with the status of the waste from subject site.

Name: Bob Allen

Title/Agency: Safety & Environmental Solutions, Inc.

Address: 703 E. Clinton, Hobbs, New Mexico 88240

Signature: Bob Allen

Date: April 21, 2003

Report Date: July 17, 2001  
N/A

Order Number: A01050435  
R&R Service Co.

Page Number: 13 of 42  
R&R Service Co.

Sample: 170578 - 0105030900

Analysis: Hg, Total Analytical Method: S 7471A QC Batch: QC11034 Date Analyzed: 5/8/01  
Analyst: SSC Preparation Method: N/A Prep Batch: PB10767 Date Prepared: 4/7/01

| Param         | Flag | Result | Units | Dilution | RDL  |
|---------------|------|--------|-------|----------|------|
| Total Mercury |      | <0.19  | mg/Kg | 1        | 0.19 |

Sample: 170578 - 0105030900

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC11123 Date Analyzed: 5/12/01  
Analyst: RR Preparation Method: E 3015 Prep Batch: PB09414 Date Prepared: 5/7/01

| Param          | Flag | Result | Units | Dilution | RDL |
|----------------|------|--------|-------|----------|-----|
| Total Arsenic  |      | <5     | mg/Kg | 1        | 5   |
| Total Barium   |      | 168    | mg/Kg | 1        | 5   |
| Total Cadmium  |      | 2.92   | mg/Kg | 1        | 2   |
| Total Chromium |      | 24.6   | mg/Kg | 1        | 5   |
| Total Lead     |      | 70.9   | mg/Kg | 1        | 5   |
| Total Selenium |      | <5     | mg/Kg | 1        | 5   |
| Total Silver   |      | <1     | mg/Kg | 1        | 1   |

Sample: 170579 - 0105030905

Analysis: Hg, Total Analytical Method: S 7471A QC Batch: QC11034 Date Analyzed: 5/8/01  
Analyst: SSC Preparation Method: N/A Prep Batch: PB10767 Date Prepared: 4/7/01

| Param         | Flag | Result | Units | Dilution | RDL  |
|---------------|------|--------|-------|----------|------|
| Total Mercury |      | <0.19  | mg/Kg | 1        | 0.19 |

Sample: 170579 - 0105030905

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC11123 Date Analyzed: 5/12/01  
Analyst: RR Preparation Method: E 3015 Prep Batch: PB09414 Date Prepared: 5/7/01

| Param          | Flag | Result | Units | Dilution | RDL |
|----------------|------|--------|-------|----------|-----|
| Total Arsenic  |      | <5     | mg/Kg | 1        | 5   |
| Total Barium   |      | 2250   | mg/Kg | 1        | 5   |
| Total Cadmium  |      | <2     | mg/Kg | 1        | 2   |
| Total Chromium |      | 275    | mg/Kg | 1        | 5   |
| Total Lead     |      | 1080   | mg/Kg | 1        | 5   |
| Total Selenium |      | <5     | mg/Kg | 1        | 5   |
| Total Silver   |      | <1     | mg/Kg | 1        | 1   |

Sample: 170580 - 0105030935

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC11115 Date Analyzed: 5/11/01  
Analyst: JG Preparation Method: E 5035 Prep Batch: PB09527 Date Prepared: 5/11/01

| Param                           | Flag | Result | Units | Dilution | RDL |
|---------------------------------|------|--------|-------|----------|-----|
| Bromochloromethane              |      | <500   | µg/Kg | 500      | 1   |
| Dichlorodifluoromethane         |      | <500   | µg/Kg | 500      | 1   |
| Chloromethane (methyl chloride) |      | <500   | µg/Kg | 500      | 1   |

Continued ...

WASTE pit L# 5-16-03



Report Date: July 17, 2001  
N/AOrder Number: A01050435  
R&R Service Co.Page Number: 14 of 42  
R&R Service Co.

... Continued Sample: 170580 Analysis: 8260

| Param                              | Flag | Result | Units | Dilution | RDL |
|------------------------------------|------|--------|-------|----------|-----|
| Vinyl Chloride                     |      | <500   | µg/Kg | 500      | 1   |
| Bromomethane (methyl bromide)      |      | <500   | µg/Kg | 500      | 1   |
| Chloroethane                       |      | <500   | µg/Kg | 500      | 1   |
| Trichlorofluoromethane             |      | <500   | µg/Kg | 500      | 1   |
| Acetone                            | 4002 | 7645   | µg/Kg | 500      | 10  |
| Iodomethane (methyl iodide)        |      | <2500  | µg/Kg | 500      | 5   |
| Carbon Disulfide                   |      | <500   | µg/Kg | 500      | 1   |
| Acrylonitrile                      |      | <500   | µg/Kg | 500      | 1   |
| 2-Butanone (MEK)                   |      | <2500  | µg/Kg | 500      | 5   |
| 4-methyl-2-pentanone (MIBK)        |      | <2500  | µg/Kg | 500      | 5   |
| 2-hexanone                         |      | <2500  | µg/Kg | 500      | 5   |
| trans 1,4-Dichloro-2-butene        |      | <5000  | µg/Kg | 500      | 10  |
| 1,1-Dichloroethene                 |      | <500   | µg/Kg | 500      | 1   |
| Methylene chloride                 |      | <2500  | µg/Kg | 500      | 5   |
| MTBE                               |      | <500   | µg/Kg | 500      | 1   |
| trans-1,2-Dichloroethene           |      | <500   | µg/Kg | 500      | 1   |
| 1,1-Dichloroethane                 |      | <500   | µg/Kg | 500      | 1   |
| cis-1,2-Dichloroethene             |      | <500   | µg/Kg | 500      | 1   |
| 2,2-Dichloropropane                |      | <500   | µg/Kg | 500      | 1   |
| 1,2-Dichloroethane (EDC)           |      | <500   | µg/Kg | 500      | 1   |
| Chloroform                         |      | <500   | µg/Kg | 500      | 1   |
| 1,1,1-Trichloroethane              |      | <500   | µg/Kg | 500      | 1   |
| 1,1-Dichloropropene                |      | <500   | µg/Kg | 500      | 1   |
| Benzene                            |      | <500   | µg/Kg | 500      | 1   |
| Carbon Tetrachloride               |      | <500   | µg/Kg | 500      | 1   |
| 1,2-Dichloropropane                |      | <500   | µg/Kg | 500      | 1   |
| Trichloroethene (TCE)              |      | <500   | µg/Kg | 500      | 1   |
| Dibromomethane (methylene bromide) |      | <500   | µg/Kg | 500      | 1   |
| Bromodichloromethane               |      | <500   | µg/Kg | 500      | 1   |
| 2-Chloroethyl vinyl ether          |      | <2500  | µg/Kg | 500      | 5   |
| cis-1,3-Dichloropropene            |      | <500   | µg/Kg | 500      | 1   |
| trans-1,3-Dichloropropene          |      | <500   | µg/Kg | 500      | 1   |
| Toluene                            |      | <500   | µg/Kg | 500      | 1   |
| 1,1,2-Trichloroethane              | 4227 | 11475  | µg/Kg | 500      | 1   |
| 1,3-Dichloropropane                |      | <500   | µg/Kg | 500      | 1   |
| Dibromochloromethane               |      | <500   | µg/Kg | 500      | 1   |
| 1,2-Dibromoethane (EDB)            |      | <500   | µg/Kg | 500      | 1   |
| Tetrachloroethene (PCE)            |      | <500   | µg/Kg | 500      | 1   |
| Chlorobenzene                      |      | <500   | µg/Kg | 500      | 1   |
| 1,1,1,2-Tetrachloroethane          |      | <500   | µg/Kg | 500      | 1   |
| Ethylbenzene                       |      | 2370 ✓ | µg/Kg | 500      | 1   |
| m,p-Xylene                         | 4239 | 7620 ✓ | µg/Kg | 500      | 1   |
| Bromoform                          |      | <500   | µg/Kg | 500      | 1   |
| Styrene                            | 4239 | <500 ✓ | µg/Kg | 500      | 1   |
| o-Xylene                           |      | 3080 ✓ | µg/Kg | 500      | 1   |
| 1,1,2,2-Tetrachloroethane          |      | <500   | µg/Kg | 500      | 1   |
| 2-Chlorotoluene                    |      | <500   | µg/Kg | 500      | 1   |
| 1,2,3-Trichloropropane             |      | <500   | µg/Kg | 500      | 1   |
| Isopropylbenzene                   |      | <500   | µg/Kg | 500      | 1   |
| Bromobenzene                       |      | <500   | µg/Kg | 500      | 1   |
| n-Propylbenzene                    |      | 915 ✓  | µg/Kg | 500      | 1   |
| 1,3,5-Trimethylbenzene             |      | 1865 ✓ | µg/Kg | 500      | 1   |
| tert-Butylbenzene                  |      | <500   | µg/Kg | 500      | 1   |

Continued ...

\*estimated concentration, RSD value above 15% on initial calibration

Report Date: July 17, 2001  
N/AOrder Number: A01050435  
R&R Service Co.Page Number: 15 of 42  
R&R Service Co.

... Continued Sample: 170580 Analysis: 8260

| Param                       | Flag | Result  | Units | Dilution | RDL |
|-----------------------------|------|---------|-------|----------|-----|
| 1,2,4-Trimethylbenzene      |      | 6465 ✓  | µg/Kg | 500      | 1   |
| 1,4-Dichlorobenzene (para)  |      | 915 ✓   | µg/Kg | 500      | 1   |
| sec-Butylbenzene            |      | <500    | µg/Kg | 500      | 1   |
| 1,3-Dichlorobenzene         |      | <500    | µg/Kg | 500      | 1   |
| p-Isopropyltoluene          |      | <500    | µg/Kg | 500      | 1   |
| 4-Chlorotoluene             |      | <500    | µg/Kg | 500      | 1   |
| 1,2-Dichlorobenzene (ortho) |      | <500    | µg/Kg | 500      | 1   |
| n-Butylbenzene              |      | <500    | µg/Kg | 500      | 1   |
| 1,2-Dibromo-3-chloropropane |      | <2500   | µg/Kg | 500      | 5   |
| 1,2,3-Trichlorobenzene      |      | <2500   | µg/Kg | 500      | 5   |
| 1,2,4-Trichlorobenzene      |      | <2500 ✓ | µg/Kg | 500      | 5   |
| Naphthalene                 |      | 4165 ✓  | µg/Kg | 500      | 5   |
| Hexachlorobutadiene         |      | <2500   | µg/Kg | 500      | 5   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 47.99  | µg/Kg | 1        | 50           | 95               | 87 - 112        |
| Toluene-d8           |      | 51.40  | µg/Kg | 1        | 50           | 102              | 91 - 111        |
| 4-Bromofluorobenzene |      | 48.60  | µg/Kg | 1        | 50           | 97               | 79 - 104        |

Sample: 170580 - 0105030935

Analysis: 8270 Analytical Method: S 8270C QC Batch: QC11161 Date Analyzed: 5/14/01  
Analyst: RC Preparation Method: E 3510C Prep Batch: PB09570 Date Prepared: 5/9/01

| Param                         | Flag | Result | Units | Dilution | RDL  |
|-------------------------------|------|--------|-------|----------|------|
| Pyridine                      |      | <250   | mg/Kg | 1        | 0.25 |
| n-Nitrosodimethylamine        |      | <250   | mg/Kg | 1        | 0.25 |
| 2-Picoline                    |      | <250   | mg/Kg | 1        | 0.25 |
| Methyl methanesulfonate       |      | <250   | mg/Kg | 1        | 0.25 |
| Ethyl methanesulfonate        |      | <250   | mg/Kg | 1        | 0.25 |
| Phenol                        |      | <250   | mg/Kg | 1        | 0.25 |
| Aniline                       |      | <250   | mg/Kg | 1        | 0.25 |
| bis (2-chloroethyl) ether     |      | <250   | mg/Kg | 1        | 0.25 |
| 2-Chlorophenol                |      | <250   | mg/Kg | 1        | 0.25 |
| 1,3-Dichlorobenzene           |      | <250   | mg/Kg | 1        | 0.25 |
| 1,4-Dichlorobenzene           |      | <250   | mg/Kg | 1        | 0.25 |
| Benzyl alcohol                |      | <250   | mg/Kg | 1        | 0.25 |
| 1,2-Dichlorobenzene           |      | <250   | mg/Kg | 1        | 0.25 |
| 2-Methylphenol                |      | <250   | mg/Kg | 1        | 0.25 |
| bis (2-chloroisopropyl) ether |      | <250   | mg/Kg | 1        | 0.25 |
| 4-Methylphenol/3-Methylphenol |      | <250   | mg/Kg | 1        | 0.25 |
| Acetophenone                  |      | <250   | mg/Kg | 1        | 0.25 |
| n-Nitrosodi-n-propylamine     |      | <250   | mg/Kg | 1        | 0.25 |
| Hexachloroethane              |      | <250   | mg/Kg | 1        | 0.25 |
| Nitrobenzene                  |      | <250   | mg/Kg | 1        | 0.25 |
| n-Nitrosopiperidine           |      | <250   | mg/Kg | 1        | 0.25 |
| Isophorone                    |      | <250   | mg/Kg | 1        | 0.25 |
| 2-Nitrophenol                 |      | <250   | mg/Kg | 1        | 0.25 |
| 2,4-Dimethylphenol            |      | <250   | mg/Kg | 1        | 0.25 |
| bis (2-chloroethoxy) methane  |      | <250   | mg/Kg | 1        | 0.25 |
| Benzoic acid                  |      | <250   | mg/Kg | 1        | 0.25 |

Continued ...

Report Date: July 17, 2001  
N/AOrder Number: A01050435  
R&R Service Co.Page Number: 16 of 42  
R&R Service Co.

... Continued Sample: 170580 Analysis: 8270

| Param                      | Flag | Result | Units | Dilution | RDL  |
|----------------------------|------|--------|-------|----------|------|
| 2,4-Dichlorophenol         |      | <250   | mg/Kg | 1        | 0.25 |
| 1,2,4-Trichlorobenzene     |      | <250   | mg/Kg | 1        | 0.25 |
| a,a-Dimethylphenethylamine |      | <250   | mg/Kg | 1        | 0.25 |
| Naphthalene                |      | <250   | mg/Kg | 1        | 0.25 |
| 4-Chloroaniline            |      | <250   | mg/Kg | 1        | 0.25 |
| 2,6-Dichlorophenol         |      | <250   | mg/Kg | 1        | 0.25 |
| Hexachlorobutadiene        |      | <250   | mg/Kg | 1        | 0.25 |
| n-Nitroso-di-n-butylamine  |      | <250   | mg/Kg | 1        | 0.25 |
| 4-Chloro-3-methylphenol    |      | <250   | mg/Kg | 1        | 0.25 |
| 1-Methylnaphthalene        |      | <250   | mg/Kg | 1        | 0.25 |
| 2-Methylnaphthalene        |      | <250   | mg/Kg | 1        | 0.25 |
| 1,2,4,5-Tetrachlorobenzene |      | <250   | mg/Kg | 1        | 0.25 |
| Hexachlorocyclopentadiene  |      | <250   | mg/Kg | 1        | 0.25 |
| 2,4,6-Trichlorophenol      |      | <250   | mg/Kg | 1        | 0.25 |
| 2,4,5-Trichlorophenol      |      | <250   | mg/Kg | 1        | 0.25 |
| 2-Chloronaphthalene        |      | <250   | mg/Kg | 1        | 0.25 |
| 1-Chloronaphthalene        |      | <250   | mg/Kg | 1        | 0.25 |
| 2-Nitroaniline             |      | <250   | mg/Kg | 1        | 0.25 |
| Dimethylphthalate          |      | <250   | mg/Kg | 1        | 0.25 |
| Acenaphthylene             |      | <250   | mg/Kg | 1        | 0.25 |
| 2,6-Dinitrotoluene         |      | <250   | mg/Kg | 1        | 0.25 |
| 3-Nitroaniline             |      | <250   | mg/Kg | 1        | 0.25 |
| Acenaphthene               |      | <250   | mg/Kg | 1        | 0.25 |
| 2,4-Dinitrophenol          |      | <250   | mg/Kg | 1        | 0.25 |
| Dibenzofuran               |      | <250   | mg/Kg | 1        | 0.25 |
| Pentachlorobenzene         |      | <250   | mg/Kg | 1        | 0.25 |
| 4-Nitrophenol              |      | <250   | mg/Kg | 1        | 0.25 |
| 1-Naphthylamine            |      | <250   | mg/Kg | 1        | 0.25 |
| 2,4-Dinitrotoluene         |      | <250   | mg/Kg | 1        | 0.25 |
| 2-Naphthylamine            |      | <250   | mg/Kg | 1        | 0.25 |
| 2,3,4,6-Tetrachlorophenol  |      | <250   | mg/Kg | 1        | 0.25 |
| Fluorene                   |      | <250   | mg/Kg | 1        | 0.25 |
| Diethylphthalate           |      | <250   | mg/Kg | 1        | 0.25 |
| 4-Chlorophenyl-phenylether |      | <250   | mg/Kg | 1        | 0.25 |
| 4-Nitroaniline             |      | <250   | mg/Kg | 1        | 0.25 |
| 4,6-Dinitro-2-methylphenol |      | <250   | mg/Kg | 1        | 0.25 |
| Diphenylamine              |      | <250   | mg/Kg | 1        | 0.25 |
| Diphenylhydrazine          |      | <250   | mg/Kg | 1        | 0.25 |
| 4-Bromophenyl-phenylether  |      | <250   | mg/Kg | 1        | 0.25 |
| Phenacetin                 |      | <250   | mg/Kg | 1        | 0.25 |
| Hexachlorobenzene          |      | <250   | mg/Kg | 1        | 0.25 |
| 4-Aminobiphenyl            |      | <250   | mg/Kg | 1        | 0.25 |
| Pentachlorophenol          |      | <250   | mg/Kg | 1        | 0.25 |
| Pentachloronitrobenzene    |      | <250   | mg/Kg | 1        | 0.25 |
| Pronamide                  |      | <250   | mg/Kg | 1        | 0.25 |
| Phenanthrene               |      | <250   | mg/Kg | 1        | 0.25 |
| Anthracene                 |      | <250   | mg/Kg | 1        | 0.25 |
| Di-n-butylphthalate        |      | <250   | mg/Kg | 1        | 0.25 |
| Fluoranthene               |      | <250   | mg/Kg | 1        | 0.25 |
| Benzidine                  |      | <250   | mg/Kg | 1        | 0.25 |
| Pyrene                     |      | <250   | mg/Kg | 1        | 0.25 |
| p-Dimethylaminoazobenzene  |      | <250   | mg/Kg | 1        | 0.25 |
| Butylbenzylphthalate       |      | <250   | mg/Kg | 1        | 0.25 |
| Benzo(a)anthracene         |      | <250   | mg/Kg | 1        | 0.25 |

Continued ...

Report Date: July 17, 2001  
N/AOrder Number: A01050435  
R&R Service Co.Page Number: 17 of 42  
R&R Service Co.

... Continued Sample: 170580 Analysis: 8270

| Param                          | Flag | Result | Units | Dilution | RDL  |
|--------------------------------|------|--------|-------|----------|------|
| 3,3-Dichlorobenzidine          |      | <250   | mg/Kg | 1        | 0.25 |
| Chrysene                       |      | <250   | mg/Kg | 1        | 0.25 |
| Bis (2-ethylhexyl) phthalate   |      | <250   | mg/Kg | 1        | 0.25 |
| Di-n-octylphthalate            |      | <250   | mg/Kg | 1        | 0.25 |
| Benzo(b)fluoranthene           |      | <250   | mg/Kg | 1        | 0.25 |
| 7,12-Dimethylbenz(a)anthracene |      | <250   | mg/Kg | 1        | 0.25 |
| Benzo(k)fluoranthene           |      | <250   | mg/Kg | 1        | 0.25 |
| Benzo(a)pyrene                 |      | <250   | mg/Kg | 1        | 0.25 |
| 3-Methylcholanthrene           |      | <250   | mg/Kg | 1        | 0.25 |
| Dibenzo(a,j)acridine           |      | <250   | mg/Kg | 1        | 0.25 |
| Indeno(1,2,3-cd)pyrene         |      | <250   | mg/Kg | 1        | 0.25 |
| Dibenzo(a,h)anthracene         |      | <250   | mg/Kg | 1        | 0.25 |
| Benzo(g,h,i)perylene           |      | <250   | mg/Kg | 1        | 0.25 |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 2-Fluorophenol       |      | 65.91  | mg/Kg | 1        | 80           | 82               | 25 - 121        |
| Phenol-d5            |      | 67.65  | mg/Kg | 1        | 80           | 84               | 24 - 113        |
| Nitrobenzene-d5      |      | 66.05  | mg/Kg | 1        | 80           | 82               | 23 - 120        |
| 2-Fluorobiphenyl     |      | 70.62  | mg/Kg | 1        | 80           | 88               | 30 - 115        |
| 2,4,6-Tribromophenol |      | 63.23  | mg/Kg | 1        | 80           | 79               | 19 - 122        |
| Terphenyl-d14        |      | 72.82  | mg/Kg | 1        | 80           | 91               | 28 - 137        |

Sample: 170580 - 0105030935

Analysis: Corrosivity Analytical Method: S 1110 QC Batch: QC11048 Date Analyzed: 5/9/01  
Analyst: TML Preparation Method: N/A Prep Batch: PB09481 Date Prepared: 5/9/01

| Param       | Flag | Result | Units | Dilution | RDL |
|-------------|------|--------|-------|----------|-----|
| Corrosivity |      | non    | mm/yr | 1        |     |
| pH          |      | 5.76   | s.u.  | 1        |     |

Sample: 170580 - 0105030935

Analysis: Hg, Total Analytical Method: S 7471A QC Batch: QC11035 Date Analyzed: 4/8/01  
Analyst: SSC Preparation Method: N/A Prep Batch: PB10766 Date Prepared: 4/7/01

| Param         | Flag | Result | Units | Dilution | RDL  |
|---------------|------|--------|-------|----------|------|
| Total Mercury |      | <0.19  | mg/Kg | 1        | 0.19 |

Sample: 170580 - 0105030935

Analysis: Ignitability Analytical Method: SW-846 Ch. 7.1 QC Batch: QC11049 Date Analyzed: 5/9/01  
Analyst: TML Preparation Method: N/A Prep Batch: PB09481 Date Prepared: 5/9/01

| Param        | Flag | Result        | Units | Dilution | RDL |
|--------------|------|---------------|-------|----------|-----|
| Ignitability |      | non-ignitable |       | 1        |     |

Report Date: July 17, 2001  
N/AOrder Number: A01050435  
R&R Service Co.Page Number: 18 of 42  
R&R Service Co.

Sample: 170580 - 0105030935

Analysis: Reactivity Analytical Method: ASTM D 5049-90/4978-95 QC Batch: QC11047 Date Analyzed: 5/9/01  
Analyst: TML Preparation Method: N/A Prep Batch: PB09481 Date Prepared: 5/9/01

| Param            | Flag | Result       | Units | Dilution | RDL |
|------------------|------|--------------|-------|----------|-----|
| Reactivity       |      | Non-reactive |       | 1        |     |
| Hydrogen Sulfide |      | <10          | mg/Kg | 1        |     |
| Hydrogen Cyanide |      | <2.5         | mg/Kg | 1        |     |

Sample: 170580 - 0105030935

Analysis: TCLP Hg Analytical Method: S 7470A QC Batch: QC11196 Date Analyzed: 5/15/01  
Analyst: SSC Preparation Method: E 1311 Prep Batch: PB09548 Date Prepared: 5/8/01

| Param        | Flag | Result | Units | Dilution | RDL  |
|--------------|------|--------|-------|----------|------|
| TCLP Mercury |      | <0.010 | mg/L  | 1        | 0.01 |

Sample: 170580 - 0105030935

Analysis: TCLP Metals Analytical Method: S 6010B QC Batch: QC11120 Date Analyzed: 5/12/01  
Analyst: RR Preparation Method: 1311 Prep Batch: PB09462 Date Prepared: 5/9/01

| Param         | Flag | Result | Units | Dilution | RDL  |
|---------------|------|--------|-------|----------|------|
| TCLP Arsenic  |      | <1     | mg/L  | 10       | 1    |
| TCLP Barium   |      | <1     | mg/L  | 10       | 1    |
| TCLP Cadmium  |      | <0.2   | mg/L  | 10       | 0.20 |
| TCLP Chromium |      | <1     | mg/L  | 10       | 1    |
| TCLP Lead     |      | <1     | mg/L  | 10       | 1    |
| TCLP Selenium |      | <1     | mg/L  | 10       | 1    |
| TCLP Silver   |      | <0.5   | mg/L  | 10       | 0.50 |

Sample: 170580 - 0105030935

Analysis: TCLP Semivolatiles Analytical Method: E 8270C QC Batch: QC12510 Date Analyzed: 5/21/01  
Analyst: RC Preparation Method: 1311 Prep Batch: PB09716 Date Prepared: 5/14/01

| Param                 | Flag | Result | Units | Dilution | RDL  |
|-----------------------|------|--------|-------|----------|------|
| Pyridine              |      | <0.05  | mg/L  | 1        | 0.05 |
| 1,4-Dichlorobenzene   |      | <0.05  | mg/L  | 1        | 0.05 |
| o-Cresol              |      | <0.05  | mg/L  | 1        | 0.05 |
| m,p-Cresol            |      | <0.05  | mg/L  | 1        | 0.05 |
| Hexachloroethane      |      | <0.05  | mg/L  | 1        | 0.05 |
| Nitrobenzene          |      | <0.05  | mg/L  | 1        | 0.05 |
| Hexachlorobutadiene   |      | <0.05  | mg/L  | 1        | 0.05 |
| 2,4,6-Trichlorophenol |      | <0.05  | mg/L  | 1        | 0.05 |
| 2,4,5-Trichlorophenol |      | <0.05  | mg/L  | 1        | 0.05 |
| 2,4-Dinitrotoluene    |      | <0.05  | mg/L  | 1        | 0.05 |
| 2,4-D                 |      | <0.05  | mg/L  | 1        | 0.05 |
| Hexachlorobenzene     |      | <0.05  | mg/L  | 1        | 0.05 |
| 2,4,5-TP              |      | <0.05  | mg/L  | 1        | 0.05 |
| Pentachlorophenol     |      | <0.05  | mg/L  | 1        | 0.05 |

Report Date: July 17, 2001  
N/A

Order Number: A01050435  
R&R Service Co.

Page Number: 19 of 42  
R&R Service Co.

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 2-Fluorophenol       |      | 17.58  | mg/Kg | 1        | 80           | 21               | 21 - 100        |
| Phenol-d5            |      | 11.58  | mg/Kg | 1        | 80           | 14               | 10 - 94         |
| Nitrobenzene-d5      |      | 51.99  | mg/Kg | 1        | 80           | 64               | 35 - 114        |
| 2-Fluorobiphenyl     |      | 52.29  | mg/Kg | 1        | 80           | 65               | 43 - 116        |
| 2,4,6-Tribromophenol |      | 51.6   | mg/Kg | 1        | 80           | 64               | 10 - 123        |
| Terphenyl-d14        |      | 52.66  | mg/Kg | 1        | 80           | 65               | 33 - 141        |

Sample: 170580 - 0105030935

Analysis: TCLP Volatiles Analytical Method: S 8260B QC Batch: QC11207 Date Analyzed: 5/10/01  
Analyst: JG Preparation Method: 1311 Prep Batch: PB09604 Date Prepared: 5/8/01

| Param                    | Flag | Result | Units | Dilution | RDL   |
|--------------------------|------|--------|-------|----------|-------|
| Vinyl Chloride           |      | <0.05  | mg/L  | 50       | 0.001 |
| 1,1-Dichloroethene       |      | <0.05  | mg/L  | 50       | 0.001 |
| Methyl ethyl ketone      |      | <0.50  | mg/L  | 50       | 0.01  |
| Chloroform               |      | <0.05  | mg/L  | 50       | 0.001 |
| 1,2-Dichloroethane (EDC) |      | <0.05  | mg/L  | 50       | 0.001 |
| Benzene                  |      | <0.05  | mg/L  | 50       | 0.001 |
| Carbon Tetrachloride     |      | <0.05  | mg/L  | 50       | 0.001 |
| Trichloroethene (TCE)    |      | <0.05  | mg/L  | 50       | 0.001 |
| Tetrachloroethene (PCE)  |      | <0.05  | mg/L  | 50       | 0.001 |
| Chlorobenzene            |      | <0.05  | mg/L  | 50       | 0.001 |
| 1,4-Dichlorobenzene      |      | <0.05  | mg/L  | 50       | 0.001 |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 44.5   | mg/Kg | 1        | 50           | 89               | 85 - 115        |
| Toluene-d8           |      | 47     | mg/Kg | 1        | 50           | 94               | 86 - 114        |
| 4-Bromofluorobenzene |      | 47     | mg/Kg | 1        | 50           | 94               | 79 - 108        |

Sample: 170580 - 0105030935

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC11118 Date Analyzed: 5/12/01  
Analyst: RR Preparation Method: E 3015 Prep Batch: PB09414 Date Prepared: 5/7/01

| Param          | Flag | Result | Units | Dilution | RDL |
|----------------|------|--------|-------|----------|-----|
| Total Arsenic  |      | <10    | mg/Kg | 1        | 5   |
| Total Barium   |      | 74.3   | mg/Kg | 1        | 5   |
| Total Cadmium  |      | <5.0   | mg/Kg | 1        | 2   |
| Total Chromium |      | 5.34   | mg/Kg | 1        | 5   |
| Total Lead     |      | 22.3   | mg/Kg | 1        | 5   |
| Total Selenium |      | <10    | mg/Kg | 1        | 5   |
| Total Silver   |      | <2.5   | mg/Kg | 1        | 1   |

P.O. Box 388  
Hobbs, NM 88241-0388  
Phone: (505) 393-1079  
Fax: (505) 393-3615

Controlled Recovery, Inc.

# Fax

To: Martyne Keiling

From: David Parsons

Fax: 505-476-3462

Date: 05-05-03

Phone: 505-476-3488

Pages: 2

Re:

☐ Urgent    ☐ For Review    ☐ Please Comment    ☐ Please Reply    ☐ Please Recycle

•Comments:

Chain of custody R & R

170575-80

Phone Price 505-446-3487

Page 1 of 1

p. 2

8701 Aberdeen Avenue, Ste. 9  
Lubbock, Texas 79424  
Tel (800) 784-1286  
Fax (800) 784-1298  
1 (800) 378-1396

## TraceAnalysis, Inc.

4725 Ripley Dr., Ste. A  
El Paso, Texas 79922-1028  
Tel (915) 865-3443  
Fax (915) 865-4844  
1 (800) 568-3443

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 170575-80

Company Name: Oil Conservation Div Phone #: (505) 393 6161

Address: (Street, City, ZIP) Fax #:

1820 S SAWYER BLVD SOUTH F.E. HW 89745 505-393-0720

Contact Person: Paul Sweeney

Invoice to: (if different from above)

Project #: Project Name: R & R SERVICE CO. - H&B

Project Location: R & R Service Co Sample Signature: [Signature]

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |      |     |        |             | PRESERVATIVE METHOD |      |        |       |      | DATE | TIME |
|-------------------------|------------|--------------|---------------|--------|------|-----|--------|-------------|---------------------|------|--------|-------|------|------|------|
|                         |            |              |               | WATER  | SOIL | AIR | SLUDGE | Misc. Chips | HCL                 | HNO3 | NaHSO4 | H2SO4 | NaOH | ICE  | NONE |

|        |            |   |      |   |  |  |  |  |  |  |  |  |  |  |  |         |      |
|--------|------------|---|------|---|--|--|--|--|--|--|--|--|--|--|--|---------|------|
| 170575 | 0105030830 | 1 | 4oz  | V |  |  |  |  |  |  |  |  |  |  |  | 5/16/83 | 8:30 |
| 76     | 0105030845 | 1 | "    | V |  |  |  |  |  |  |  |  |  |  |  | "       | 8:45 |
| 77     | 0105030850 | 1 | "    | V |  |  |  |  |  |  |  |  |  |  |  | "       | 8:50 |
| 78     | 0105030900 | 1 | "    | V |  |  |  |  |  |  |  |  |  |  |  | "       | 9:00 |
| 79     | 0105030905 | 1 | "    | V |  |  |  |  |  |  |  |  |  |  |  | "       | 9:05 |
| 80     | 0105030935 | 1 | 40ml | V |  |  |  |  |  |  |  |  |  |  |  | "       | 9:25 |
|        | 0105030935 | 1 | "    | V |  |  |  |  |  |  |  |  |  |  |  | "       | 9:35 |
|        | 0105030935 | 1 | L-L  | V |  |  |  |  |  |  |  |  |  |  |  | "       | 9:35 |

CNSIE PTE

Subinquired by: Wayne Pace Date: 5/16/81 Time: 10:15 AM Received by: Date: Time:

Subinquired by: Date: Time: Received by: Date: Time:

Subinquired by: Date: Time: Received at Laboratory by: Date: Time: 5-4-01 10:00am

Subinquired by: Date: Time: Received at Laboratory by: Date: Time: 5-4-01 10:00am

Submitter of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

Center # 1115. 912 797 4134

LAB USE ONLY

REMARKS: 170579-Grind prior to testing

7/16

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8021B/602

BTX 8021B/602

TPH 41L/TX1005

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg 80108/200.7

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC-MS Vol. 8260B/624

GC/MS Semi. Vol. 8270C/625

PCB's 8082/608

Pesticides 8081A/608

BOD, TSS, pH

OSO GEN-CREM

Turn Around Time if different from standard

Hold