

GW - 023

REPORTS

Year(s)

Closure Report

1/29/2007

Chavez, Carl J, EMNRD

From: Weathers, Stephen W [SwwWeathers@dcpmidstream.com]
Sent: Friday, September 12, 2008 2:15 PM
To: Chavez, Carl J, EMNRD
Subject: RE: Duke Energy Field Services Artesia Gas Plant (Flare Pit Remediation/Closure) OCD Permit
Attachments: DukeFlarePit_Closure (2).doc; 1duke.tif

Carl

The work was completed under DCP Midstream Artesia Gas Plant (GW-23) Attached is a Closure Letter and the Pit Closure Form. The work was originally started under Duke Energy Field Services but was completed after we had changed our name to DCP Midstream.

Call if you have any questions.

Thanks
Steve

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Friday, September 12, 2008 1:46 PM
To: Weathers, Stephen W
Subject: Duke Energy Field Services Artesia Gas Plant (Flare Pit Remediation/Closure) OCD Permit

Stephen:

I am having some difficulty tracking down the RP# or GW# for the Duke Energy Field Services Artesia Gas Plant. Do you have the RP or GW number? Has there been any name change? Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/index.htm>
(Pollution Prevention Guidance is under "Publications")

From: Weathers, Stephen W [mailto:SwwWeathers@dcpmidstream.com]
Sent: Friday, September 12, 2008 12:18 PM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD; Johnson, Larry, EMNRD
Cc: Bauer, Matt
Subject: Notification to Compete Groundwater Sampling at the DCP Hobbs Gas Plant - Sept 17th 2008

Mr. Price

DCP Midstream, LP by this email is informing you that the 3rd Quarter 2008 groundwater sampling event for the DCP Hobbs Gas Plant located in Lea, New Mexico (Unit G, Section 36, Township 18 South, Range 36 East) is scheduled for September 17th, 2008. The activities should begin around 8 am MST.

9/12/2008

If you have any questions, please give me a call at 303-605-1718.

Thanks

Stephen W Weathers, P.G.
Principal Environmental Specialist
DCP Midstream L.P.
Office 303.605.1718
Cell 303.619.3042

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9/12/2008



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

Duke Energy Field Services
370 17th St. Suite 2500
Denver CO 80202
ATTN: Steve Weathers

January 29, 2007

Reference: Duke Energy Field Services Artesia Gas Plant (Flare Pit Remediation/Closure)
Location: 7-18s-28e Eddy County, New Mexico

Dear Mr. Weathers,

The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of a Closure Report (report) outlining remediation activities performed in closing a flare pit at the above referenced location. The report was prepared and submitted to the OCD by your agent, Conestoga-Rovers & Associates.

Based on the data submitted, the OCD accepts the closure report and will require no further action at this site at this time.

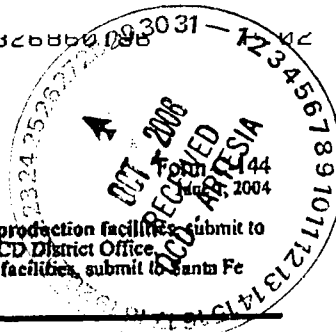
Please be advised that approval/acceptance of this closure does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, approval/acceptance of this closure does not relieve the responsible party of responsibility for compliance with any other federal, state, local laws and/or regulations.

Sincerely,

Mike Bratcher

NMOCD District 2
1301 W. Grand Ave.
Artesia, NM 88210
(505) 748-1283 Ext. 108
(505) 626-0857
mike.bratcher@state.nm.us

cc: Stephen Weathers (Duke Energy Field Services), Todd Wells (Conestoga Rovers & Associates) Wayne Price (NMOCD)



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

For drilling and production facilities, submit to appropriate NMOC District Office.
For downstream facilities, submit to Santa Fe office.

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Duke Energy Field Services Telephone: (505) 677-5203 e-mail address: _____
Address: 1925 Illinois Camp Road, Artesia, NM
Facility or well name: Artesia Gas Plant API #: _____ U/L or Qtr/Qtr Sec _____ T _____ R _____
County: Eddy Latitude 32° 45' 24.6" N Longitude 104° 12' 45.1" W NAD: 1927 ☐ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☐ Indian ☐

| | | | |
|---|--|--|--|
| Pit Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> <u>Flare</u> Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl | | Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: _____ | |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) | | Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) 100 feet or more (0 points) | <input checked="" type="radio"/> 50 feet or more, but less than 100 feet |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) | | Yes (20 points) No (0 points) | <input checked="" type="radio"/> Yes |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) | | Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more (0 points) | <input checked="" type="radio"/> 1000 feet or more |
| Ranking Score (Total Points) | | 30 | |

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☒ If offsite, name of facility Artesia Aeration. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface NA ft. and attach sample results.

(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: See attached Flare Pit Soil Remediation and Closure Report
DEFS Artesia Gas Plant, Eddy County, NM for details

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOC District Office, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 10/19/06

Printed Name/Title: Stephen Wegner / Sr Env Specialist Signature: [Signature]

Your certification and NMOC District Office approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title: Mike Brocher Asst. # Signature: [Signature] Date: 1/24/07



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

Duke Energy Field Services
370 17th St. Suite 2500
Denver CO 80202
ATTN: Steve Weathers

January 29, 2007

Reference: Duke Energy Field Services Artesia Gas Plant (Flare Pit Remediation/Closure)
Location: 7-18s-28e Eddy County, New Mexico

Dear Mr. Weathers,

The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of a Closure Report (report) outlining remediation activities performed in closing a flare pit at the above referenced location. The report was prepared and submitted to the OCD by your agent, Conestoga-Rovers & Associates.

Based on the data submitted, the OCD accepts the closure report and will require no further action at this site at this time.

Please be advised that approval/acceptance of this closure does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, approval/acceptance of this closure does not relieve the responsible party of responsibility for compliance with any other federal, state, local laws and/or regulations.

Sincerely,

Mike Bratcher

NMOCD District 2
1301 W. Grand Ave.
Artesia, NM 88210
(505) 748-1283 Ext. 108
(505) 626-0857
mike.bratcher@state.nm.us

cc: Stephen Weathers (Duke Energy Field Services), Todd Wells (Conestoga Rovers & Associates) Wayne Price (NMOCD)

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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

For drilling and production facilities, submit to appropriate NMOC District Office.
For downstream facilities, submit to Santa Fe office.

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Duke Energy Field Services Telephone: (505) 677-5203 e-mail address: _____
Address: 1925 Illinois Camp Road, Artesia, NM
Facility or well name: Artesia Gas Plant API #: _____ U/L or Qtr/Tr: _____ Sec _____ T _____ R _____
County: Eddy Latitude: 32° 45' 24.6" N Longitude: 104° 12' 45.1" W NAD: 1927 ☐ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☐ Indian ☐

| | | | | | | | |
|--|--|--------------------|-------------|---|-------------|-------------------|------------|
| Pit Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Flare Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl | Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. _____ | | | | | | |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) | <table border="1"> <tr> <td>Less than 50 feet</td> <td>(20 points)</td> </tr> <tr> <td>50 feet or more, but less than 100 feet</td> <td>(10 points)</td> </tr> <tr> <td>100 feet or more</td> <td>(0 points)</td> </tr> </table> | Less than 50 feet | (20 points) | 50 feet or more, but less than 100 feet | (10 points) | 100 feet or more | (0 points) |
| Less than 50 feet | (20 points) | | | | | | |
| 50 feet or more, but less than 100 feet | (10 points) | | | | | | |
| 100 feet or more | (0 points) | | | | | | |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) | <table border="1"> <tr> <td>Yes</td> <td>(20 points)</td> </tr> <tr> <td>No</td> <td>(0 points)</td> </tr> </table> | Yes | (20 points) | No | (0 points) | | |
| Yes | (20 points) | | | | | | |
| No | (0 points) | | | | | | |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) | <table border="1"> <tr> <td>Less than 200 feet</td> <td>(20 points)</td> </tr> <tr> <td>200 feet or more, but less than 1000 feet</td> <td>(10 points)</td> </tr> <tr> <td>1000 feet or more</td> <td>(0 points)</td> </tr> </table> | Less than 200 feet | (20 points) | 200 feet or more, but less than 1000 feet | (10 points) | 1000 feet or more | (0 points) |
| Less than 200 feet | (20 points) | | | | | | |
| 200 feet or more, but less than 1000 feet | (10 points) | | | | | | |
| 1000 feet or more | (0 points) | | | | | | |
| Ranking Score (Total Points) 30 | | | | | | | |

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☒ If offsite, name of facility: Artesia Aeration. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface: NA ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: See attached Flare Pit Soil Remediation and Closure Report DEES Artesia Gas Plant, Eddy County, NM for details

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☒ a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 10/16/06

Printed Name/Title: Stephen Wegman / Sr Env Specialist Signature: [Signature]

Your certification and NMOC approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title: Mike Brothman Asst. Dir. Signature: [Signature]

Date: 1/24/07



**CONESTOGA-ROVERS
& ASSOCIATES**

2135 S. Loop 250 West

Midland, Texas 79705

Telephone: (432) 686-0086

Fax: (432) 686-0186

<http://www.craworld.com>

October 24, 2006

Reference No. 043995 (3)

Mr. Mike Bratcher
New Mexico Oil Conservation Division
District 2
1301 W. Grand Avenue
Artesia, New Mexico 88210

Re: Duke Energy Field Services
Artesia Gas Plant
Flare Pit Soil Remediation and Closure Report
Location: Section 7, T-18-S, R-28-E
Eddy County, New Mexico

Dear Mr. Bratcher:

Conestoga-Rovers and Associates (CRA) submits the attached New Mexico Oil Conservation Division (NMOCD) Form C-144, "Pit or Below-Grade Tank Registration or Closure" for pit closure as agent for Duke Energy Field Services (DEFS) at the Duke Artesia Gas Plant, located approximately 11-miles east of Artesia, Eddy County, New Mexico. Also, included is the *Flare Pit Soil Remediation and Closure Report* dated October 24, 2006, for the above referenced facility demonstrating the remedial actions taken. The (NMOCD) Form C-144 has been completed and signed by Mr. Stephen Weathers, Senior Environmental Specialist with DEFS. Subsequent to your review and written approval on the Form C-144, CRA anticipates no further action regarding this flare pit. As appropriate, please provide CRA with the final documentation of this pit closure.

If you have any questions or comments regarding this pit closure, please feel free to contact our Midland office at (432) 686-0086.

Sincerely,
CONESTOGA-ROVERS & ASSOCIATES

Todd Wells
Project Manager

Thomas C. Larson
Operations Manager

Enclosures: Form C-144 with Flare Pit Soil Remediation and Closure Report (Attached)

Cc: Mr. Steve Weathers, DEFS

Equal
Employment Opportunity
Employer

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-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Duke Energy Field Services Telephone: (505) 677-5203 e-mail address: _____
Address: 1925 Illinois Camp Road, Artesia, NM
Facility or well name: Artesia Gas Plant API #: _____ U/L or Qm/Qtr _____ Sec _____ T _____ R _____
County: Eddy Latitude: 32° 45' 24.6" N Longitude: 104° 12' 45.1" W NAD: 1927 ☐ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☐ Indian ☐

| | | |
|---|--|---|
| Pit Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> <u>Flare</u> Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl | Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. _____ | |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) | Less than 50 feet <u>50 feet or more, but less than 100 feet</u> 100 feet or more | (20 points) <u>(10 points)</u> (0 points) |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) | <u>Yes</u> No | <u>(20 points)</u> (0 points) |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) | Less than 200 feet <u>200 feet or more, but less than 1000 feet</u> <u>1000 feet or more</u> | (20 points) <u>(10 points)</u> <u>(0 points)</u> |
| Ranking Score (Total Points) | | <u>30</u> |

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☒ If offsite, name of facility Artesia Aeration. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface NA ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: See attached Flare Pit Soil Remediation and Closure Report
DEFS Artesia Gas Plant, Eddy County, NM for details

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

Date: 10/14/06
 Printed Name/Title: Stephen Weathers / Sr Env Specialist Signature: [Signature]
 Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
 Printed Name/Title _____ Signature _____ Date: _____

**FLARE PIT SOIL REMEDIATION AND CLOSURE
REPORT**

**DUKE ENERGY FIELD SERVICES
ARTESIA GAS PLANT
SECTION 7, T-18-S, R-28-E
EDDY COUNTY, NEW MEXICO**

FLARE PIT SOIL REMEDIATION AND CLOSURE REPORT

**DUKE ENERGY FIELD SERVICES
ARTESIA GAS PLANT
SECTION 7, T-18-S, R-28-E
EDDY COUNTY, NEW MEXICO**

Prepared For:

**Mr. Steve Weathers
DUKE ENERGY FIELD SERVICES
370 17th Street, Suite 2500
Denver, Colorado 80202**

**OCTOBER 24, 2006
REF. NO. 043995 (3)**

**Prepared by:
Conestoga-Rovers
& Associates**

2135 S. Loop 250 West
Midland, TX 79705

Office: (432) 686-0086
Fax: (432) 686-0186

web:
<http://www.CRAworld.com>

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) has prepared this Flare Pit Soil Remediation and Closure Report on behalf of Duke Energy Field Services (DEFS). The DEFS Artesia Flare Pit (hereafter referred to as the "Site") is located 11 miles east of Artesia in Section 7, T-18-S, R-28-E in Eddy County, New Mexico (FIGURE 1). The flare pit is associated with an active gas plant facility which has been in operation for approximately 40 years. DEFS is in the process of decommissioning the flare pit. The facility is currently owned and operated by DEFS.

A document entitled *Flare Pit Soil Remediation and Closure Workplan*, Duke Energy Field Services, Artesia Gas Plant dated May 23, 2006 was prepared by CRA on behalf of DEFS. The workplan was submitted to Mr. Mike Bratcher with the NMOCD District 2 office in Artesia, New Mexico, and was approved on August 14, 2006.

Based on the field activities outlined in the New Mexico Oil Conservation Division (NMOCD) approved Workplan and performed at the Site we have met the requirements for pit closure. We request pit closure by the New Mexico Oil Conservation Division. The Closure Report elements include:

- Procedures utilized to assess the extent of contamination;
- Procedures utilized to manage, remediate and dispose of all contaminated soil and wastes; and
- Documentation of closure activities associated with the subject flare pit.

This document presents the results of initial and final confirmation soil sampling results performed at the Site, regulatory framework for closure activities as well as a completed NMOCD Form C-144, Pit or Below-Grade Tank Registration or Closure, to facilitate Site closure. Site details, sampling locations and the remedial excavation area are presented as FIGURES 2 and 3. Appendices are provided to include laboratory analytical reports and waste management documentation including the signed Certificate of Waste Status and Non-Hazardous Waste Manifest forms that indicate receipt of the 30 cubic yards of contaminated soil by Artesia Aeration.

2.0 REGULATORY FRAMEWORK AND SITE CLASSIFICATION

The NMOCD has regulatory jurisdiction over certain oil and gas production operations in the State of New Mexico, including the closure of pits and below-grade tanks. The NMOCD document entitled *Pit and Below-Grade Tank Guidelines*, dated November 1, 2004, was reviewed in the context of planned decommissioning activities for the DEFS Artesia Flare Pit location. The guidelines apply to pits (including flare pits) classified as 1) exempt for Federal Resources Conservation and Recovery Act (RCRA) Subtitle C Regulations, or 2) non-hazardous, by characteristic testing. Prior to final closure of an unlined pit (or above grade pit) the operator was required to perform an assessment to evaluate the extent to which soils and/or groundwater may have been impacted by its operation. Assessment results formed the basis of the required remediation. Remediation was performed in accordance to NMOCD *Guidelines for Remediation of Spills, Leaks, and Releases*, dated August 13, 1993.

This project was conducted under the regulatory jurisdiction of the NMOCD, which requires the vadose zone shall be abated so that water contaminants in the vadose zone will not, with reasonable probability, contaminate groundwater or surface water (toxic pollutants as defined in 20.6.2.7 New Mexico Administration Code were not present) through leaching, percolation, or other transport mechanisms (19.15.1.19 NMAC, Subsection B, Paragraphs 1 and 2). The NMOCD hydrocarbon soil remediation levels were determined by ranking on-site criteria, as outlined in the NMOCD *Guidelines for Remediation of Spills, Leaks, and Releases*, dated August 13, 1993. The ranking criteria were based on three site characteristics: depth to groundwater, wellhead protection, and distance to surface water.

Currently, one windmill is located within 1,000 feet of the flare pit with an estimated depth to groundwater of greater than 50 feet below ground surface (bgs) but less than 100 feet bgs. No surface water bodies are located within 1,000 feet or less of the flare pit. The table below illustrates the ranking criteria, used by the NMOCD, and includes site-specific characteristics at the Site.

| Criteria | Site Characteristics | Ranking Score |
|---------------------------|--------------------------|---------------|
| Depth to Ground Water | 50-99 feet | 10 |
| Wellhead Protection Area | >200 feet to <1,000 feet | 20 |
| Distance to Surface Water | >1,000 feet | 0 |
| | Total Ranking Score | 30 |

Based on the Site's characteristics and the "Guidelines for Remediation of Spills, Leaks, and Releases" the site has a ranking score of 30. Consequently, the ranking criteria Recommended Remediation Action Levels (RRALs) of 10 milligrams per kilogram (mg/Kg) Benzene, 50 mg/Kg total Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), and 100 mg/Kg Total Petroleum Hydrocarbons (TPH) were utilized for remediation at the Site.

3.0 INITIAL SOIL SAMPLING ANALYTICAL RESULTS

DEFS contacted CRA on January 18, 2006 regarding the evaluation of closure activities on the flare pit. In response, CRA and DEFS personnel were onsite January 23, 2006 to collect six grab soil samples to assess and confirm conditions at the former flare pit location. One sample from each of the north, south, east, west walls and two grab bottom samples were collected. The soil samples were delivered to TraceAnalysis, Inc. (Trace) in Lubbock, Texas for TPH (GRO/DRO) analysis by EPA Method 8015B (modified), BTEX analysis by EPA Method 8021B and Total Metals analysis by EPA method S 6010B. The Site Details and Assessment Sample Location Map (FIGURE 2) illustrate the assessment soil sample locations. The analytical data indicated that five of the six (BTEX/TPH) results were below NMOCD RRALs (TABLE I). Only one sample indicated the necessity to further excavate the north end of the Site because Total TPH concentrations were above RRALs. The analytical results for BTEX and TPH from the initial sampling event are presented in TABLE I, total metal results are in TABLE II and laboratory reports are in APPENDIX A.

4.0 SOIL REMEDIATION AND FINAL CONFIRMATION SAMPLING ACTIVITIES

The soil remediation activities were performed in accordance to tasks outlined in the May 23, 2006 workplan approved by the District 2 NMOCD office.

The initial soil assessment activities performed by CRA effectively delineated the horizontal extent of hydrocarbon-affected soils in accordance to NMOCD regulatory guidance. Analytical results indicated that the primary area of affected soils above NMOCD RRALs at the Site was centered around the North Bottom soil sample location (FIGURE 2).

The Soil Remediation and Closure activities at the DEFS Flare Pit included the following tasks:

- Task 1 - Site Preparation
- Task 2 - Excavation Activities
- Task 3 - Soil-Staging and Hauling Activities
- Task 4 - Final Confirmation Soil Sampling and Analytical Results
- Task 5 - Waste Management
- Task 6 - Site Restoration and Closure Request

The following sections present details in association with the general tasks outlined in the approved workplan.

Task 1 - Site Preparation

A project specific Health and Safety Plan (HASP) was prepared by CRA prior to conducting the soil excavation, removal, and backfilling (as appropriate) activities. Safety and health issues associated with this project included working around excavations, heavy equipment, hydrocarbon-affected soils, and underground utilities such as pipelines. CRA representatives implemented the HASP in the field.

Field activities required identification of the proposed remedial excavation, communication with New Mexico utility notification services, as well as coordination of activities with DEFS personnel to facilitate a safe working environment at the active Artesia Gas Plant facility. A pre-start site safety review was implemented prior to beginning field activities in accordance with HASP objectives - including communication and review of DEFS site-specific safety requirements.

The pre-approval of waste management activities such as waste characterization, transportation and disposal/treatment of impacted soils is also included (Task 5 - Waste Management).

The permit approval for Artesia Aeration LLC, designated facility for the waste materials associated with the project, is provided in APPENDIX B.

The waste characterization activities were based on conversations with Mr. Ed Martin of the NMOCD regarding this project.

Task 2 - Excavation Activities

Subsequent to the completion of the Site preparation task, excavation activities were implemented at the excavation area identified in FIGURE 3. Excavation walls were sloped in accordance to the Occupational Safety and Health Administration (OSHA) guidelines. Based on the initial soil sampling results for the Site, excavation activities were limited to the north end of the flair pit and did not exceed 4.5-feet bgs. Heavy equipment was utilized to remove affected soils for staging adjacent to the remedial excavation.

Soil samples were periodically collected within the excavation at various depths and locations based on the judgment of CRA field personnel to assess the completeness of the soil removal activities. The soil samples were field screened utilizing a photo-ionization detector (PID) calibrated to a 100-ppm isobutylene standard for volatile compounds with less than 10.6 electron volts ionization potential. Each soil sample was placed in resealable plastic bags leaving a headspace for volatile organic compounds (VOCs) to collect. After sufficient time had passed to allow for volatilization, the headspace in each bagged sample was measured using the PID. Visual observation of soil conditions was also utilized to determine the limits of the excavation. Areas exhibiting excessive VOC concentrations and/or visual impacts were over-excavated and re-sampled until reduced concentrations and/or limited visual impacts were documented.

Task 3 - Soil-Staging and Hauling Activities

Hydrocarbon-affected soils removed from the remedial excavation area were staged adjacent to the excavation on a polyethylene liner. The waste materials were identified for offsite transport to the Artesia Aeration landfarm facility (see Task 5 - Waste Management). The materials were loaded into dump trucks at the prescribed staging area. Appropriate documentation, including shipping manifests, were maintained for all soils transported offsite (APPENDIX C).

Task 4 – Final Confirmation Soil Sampling and Analytical Results

The NMOCD District 2 Artesia office was notified at least 48 hours in advance of the confirmation sampling activities. On September 1, 2006, CRA personnel were on site to witness the excavation of the north end of the pit and to collect the soil samples for analysis. The Site Details and Confirmation Sample Location Map (FIGURE 3) presents the confirmation soil sample locations. The north end of the pit was excavated to a depth of 4.5 feet bgs in the bottom. Six confirmation samples were taken from the north, south, east, west sidewalls and (2) bottom sample locations.

The soil samples were delivered to TraceAnalysis, Inc. (Trace) in Midland, Texas for TPH (GRO/DRO) analysis by EPA Method 8015B (modified) and BTEX analyses by EPA Method 8021B. Each container was labeled, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40°F (4°C). The cooler was sealed for shipment to the laboratory. Proper chain-of-custody documentation accompanied the samples to the laboratory.

TABLE III, Final Soil Confirmation Summary of Analytical Results for BTEX/TPH demonstrates that all six samples collected were below NMOCD RRALs for the appropriate analytes.

Task 5 – Waste Management

A NMOCD-Request for Approval to Accept Solid Waste Form C-138 (APPENDIX C) was submitted to the NMOCD along with the waste characterization analytical data in advance of the waste transportation activities. Agency pre-approval was obtained for the proposed waste shipments to the NMOCD-permitted Artesia Aeration facility. The request was approved as RCRA Non-exempt waste on May 1, 2006 by Mr. Edward Martin of the NMOCD. A Certificate of Waste Status Form (APPENDIX C) was completed and signed by DEFS prior to disposal of any waste at the landfarm.

Hydrocarbon-affected soils removed from the Site were transported for offsite disposal/treatment at the Artesia Aeration facility located near Maljamar, New Mexico. The soils were identified as RCRA non-exempt waste. Artesia Aeration currently holds Permit NM-01-0030 from the New Mexico Energy, Minerals, and Natural Resources Department – Oil Conservation Division (NMOCD), to operate a commercial surface waste management facility (APPENDIX B). CRA understands that Artesia Aeration is a DEFS-approved facility. The volume of soils transported to the facility was 30 cubic yards. Manifest documentation was maintained to track the actual amount of soil removed from the Site and is provided in APPENDIX C.

Task 6 – Site Restoration and Closure Request

Final grading of construction-affected surface areas will be performed to mitigate wind erosion and facilitate re-vegetation. Re-vegetation efforts will be performed in coordination with the landowner (understood to be DEFS).

Based on the field activities outlined in the NMOCD approved Workplan and performed at the Site we have met the requirements for pit closure. With the completed NMOCD Form C-144 and this report we request closure of the DEFS Artesia Flare Pit Site by the New Mexico Oil Conservation Division. Please contact CRA at (432) 686-0086 or Mr. Steve Weathers with DEFS at (303) 605-1718 with any questions regarding this request.

All of Which is Respectfully Submitted,
Conestoga-Rovers & Associates



Todd Wells
Project Manager



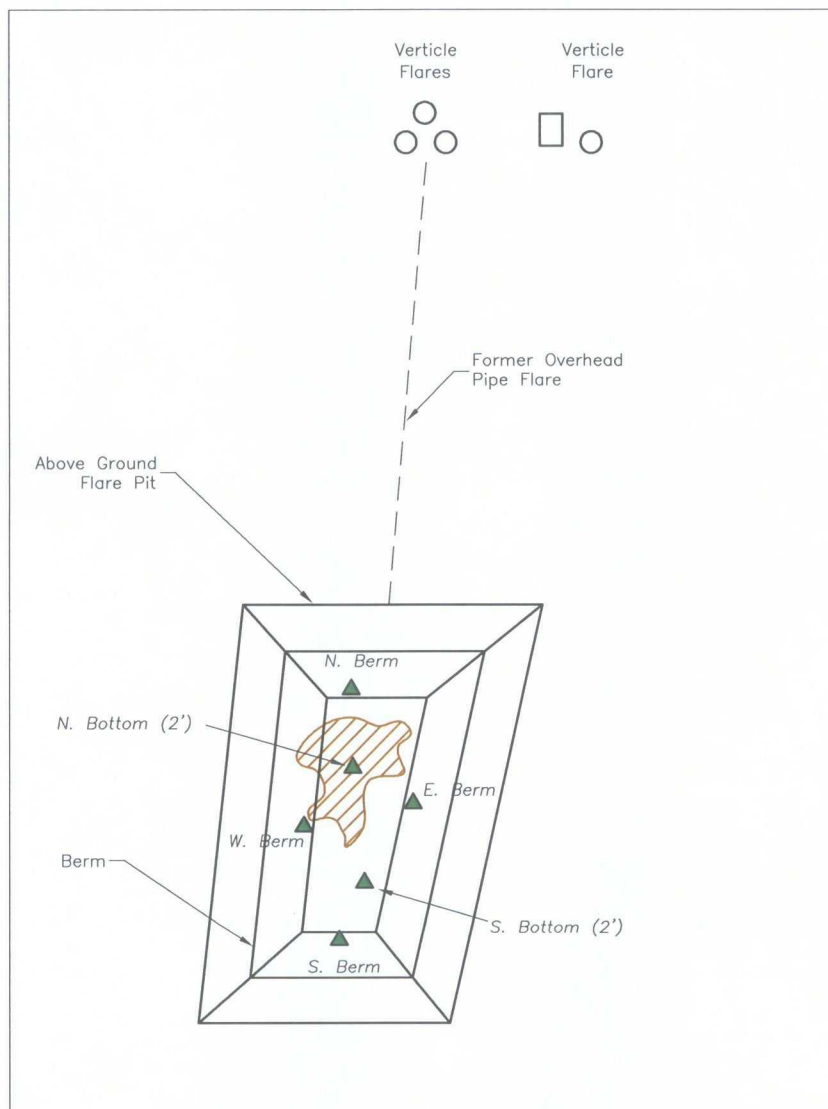
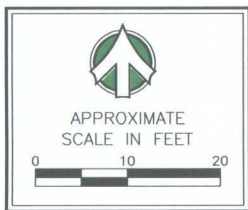
Thomas C. Larson
Operations Manager

LAT= 32° 45' 24.6" N
LONG= 104° 12' 45.1" W

[illegible]

FLARE PIT DUKE ENERGY FIELD SERVICES
ARTESIA, EDDY COUNTY, NEW MEXICO

FIGURE
1



| LEGEND | |
|--------|--------------------------|
| | Sample Location |
| | Proposed Excavation Area |

NOTE:

Soil sample location shown were collected on January 23, 2006.

043995 SLR 101306

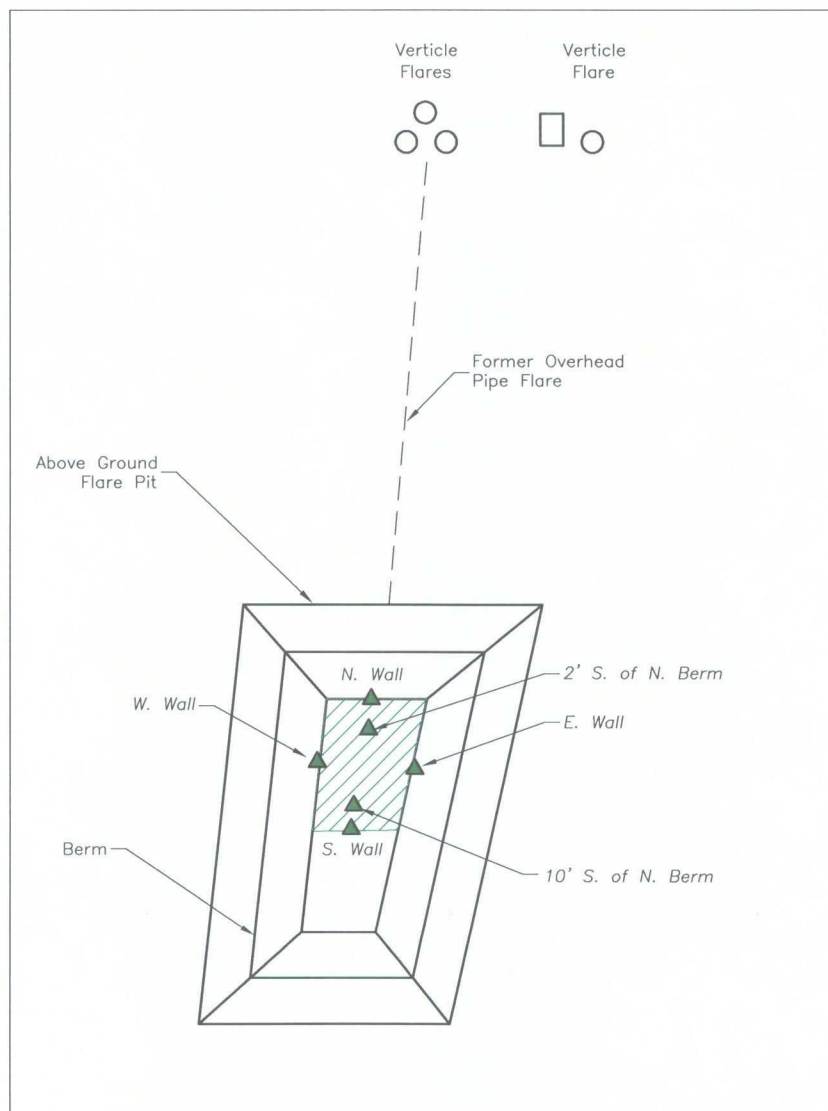
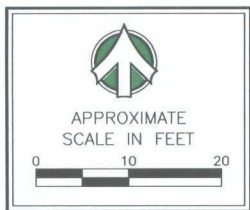


SITE DETAILS AND ASSESSMENT SAMPLE LOCATION MAP

**DUKE ENERGY FIELD SERVICES
FLARE PIT ARTESIA, EDDY COUNTY, NEW MEXICO**

**JOB No.
043995**

**FIGURE
2**



NOTE:

Soil sample location shown were collected on September 1, 2006.

043995 SLR 101306



SITE DETAILS AND CONFIRMATION SAMPLE LOCATION MAP

**DUKE ENERGY FIELD SERVICES
FLARE PIT ARTESIA, EDDY COUNTY, NEW MEXICO**

**JOB No.
043995**

**FIGURE
3**

TABLE I
INITIAL SOIL ASSESSMENT (BTEX/TPH)
SUMMARY OF SOIL ANALYTICAL RESULTS
DUKE ENERGY FIELD SERVICES
ARTESIA FLARE PIT
EDDY COUNTY, NEW MEXICO

| Sample ID | Date | Benzene | Toluene | Ethylbenzene | Total Xylenes | Total BTEX | TPH DRO | TPH GRO | TOTAL TPH DRO/GRO |
|----------------|----------|----------------------------|---------|--------------|---------------|----------------------------|------------|---------|-----------------------------|
| NMOCD RRALs | | | | | | | | | |
| | | 10 ¹ (mg/Kg) | --- | --- | --- | 50 ¹ (mg/Kg) | --- | --- | 100 ¹ (mg/Kg) |
| E Berm | 01/23/06 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <50.0 | <1.00 | <50.0 |
| S. Berm | 01/23/06 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <50.0 | <1.00 | <50.0 |
| W. Berm | 01/23/06 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <50.0 | <1.00 | <50.0 |
| N. Berm | 01/23/06 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <50.0 | <1.00 | <50.0 |
| N. Bottom (2') | 01/23/06 | <0.0500 | <0.0500 | <0.0500 | <0.0500 | <0.0500 | 682 | <5.00 | 682 |
| S. Bottom (2') | 01/23/06 | <0.0100 | <0.0100 | <0.00100 | <0.0100 | <0.0100 | <50.0 | <1.00 | <50.0 |

Notes:

1. New Mexico Oil Conservation Division Guidelines for Remediation of Leaks, Spills and Releases, Recommended Remediation Action Levels (RRALs) for Benzene, Total BTEX and Total TPH (DRO/GRO)
2. Results shown in milligrams per kilogram
3. BTEX and MTBE analysis by EPA Method 8021B; TPH DRO/GRO by EPA Method 8015B modified.
4. Bolded areas indicate detection above laboratory standards.
5. Shaded areas indicated detection above regulatory limits.

TABLE II
INITIAL SOIL ASSESSMENT (TOTAL METALS)
SUMMARY OF SOIL ANALYTICAL RESULTS
DUKE ENERGY FIELD SERVICES
ARTESIA FLARE PIT
EDDY COUNTY, NEW MEXICO

| Sample ID | Date | Total Silver (mg/Kg) | Total Arsenic (mg/Kg) | Total Barium (mg/Kg) | Total Cadmium (mg/Kg) | Total Chromium (mg/Kg) | Total Mercury (mg/Kg) | Total Lead (mg/Kg) | Total Selenium (mg/Kg) |
|----------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|---------------------------|--------------------------|-----------------------|---------------------------|
| NMOCD RRLs | | | | | | | | | |
| | | 391 ¹ | 3.9 ¹ | 5450 ¹ | 39 ¹ | 10,000 ¹ | 6.11 ¹ | 400 ¹ | 391 ¹ |
| | | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| E Berm | 01/23/06 | 1.54 | <1.00 | 398 | <0.500 | 52.1 | <0.0400 | <1.00 | <1.00 |
| S. Berm | 01/23/06 | 1.15 | <1.00 | 266 | 0.542 | 12.3 | 0.123 | 4.00 | <1.00 |
| W. Berm | 01/23/06 | 1.20 | <1.00 | 430 | <0.500 | 40.1 | <0.0400 | 1.95 | <1.00 |
| N. Berm | 01/23/06 | 1.31 | <1.00 | 310 | <0.500 | 12.4 | <0.0400 | 1.83 | <1.00 |
| N. Bottom (2') | 01/23/06 | <0.200 | 4.56 | 59.5 | 22.6 | 93.5 | 0.115 | 17.9 | <1.00 |
| S. Bottom (2') | 01/23/06 | <0.200 | <1.00 | 189 | 1.73 | 18.8 | <0.040 | 11.6 | <1.00 |

Notes:

1. New Mexico Environmental Department Hazardous Waste Bureau Voluntary Remediation Program for Residential Soils
2. Total Metals by EPA Method S 6010 B

TABLE III
FINAL SOIL CONFIRMATION (BTEx / TPH)
SUMMARY OF ANALYTICAL RESULTS
DUKE ENERGY FIELD SERVICES
ARTESIA FLARE PIT
EDDY COUNTY, NEW MEXICO

| Sample ID | Date | Benzene | Toluene | Ethylbenzene | Total Xylenes | Total BTEX | TPH DRO | TPH GRO | TOTAL TPH DRO/GRO |
|-------------------|----------|-----------------|---------|--------------|---------------|-----------------|---------|---------|-------------------|
| | | NMOCD STANDARDS | | | | | | | |
| | | 10 ¹ | --- | --- | --- | 50 ¹ | --- | --- | 100 ¹ |
| | | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| 2' S. of N. Berm | 09/01/06 | <0.0100 | 0.0268 | 0.0110 | 0.0499 | 0.0877 | <50.0 | <1.00 | <50.0 |
| 10' S. of N. Berm | 09/01/06 | <0.0100 | 0.0192 | <0.0100 | 0.0263 | 0.0455 | <50.0 | <1.00 | <50.0 |
| S. Wall | 09/01/06 | <0.0100 | 0.0177 | <0.0100 | 0.0235 | 0.0412 | <50.0 | <1.00 | <50.0 |
| E. Wall | 09/01/06 | <0.0100 | 0.0183 | <0.0100 | 0.0245 | 0.0428 | <50.0 | <1.00 | <50.0 |
| W. Wall | 09/01/06 | <0.0100 | 0.0186 | <0.0100 | 0.0220 | 0.0406 | <50.0 | <1.00 | <50.0 |
| N. Wall | 09/01/06 | <0.0100 | 0.0177 | <0.0100 | 0.0214 | 0.0391 | <50.0 | <1.00 | <50.0 |

Notes:

1. New Mexico Oil Conservation Division Guidelines for Remediation of Leaks, Spills and Releases
2. Results shown in mg/Kg
3. BTEx analysis by EPA Method 8021B; TPH DRO/GRO by EPA Method 8015B modified.
4. Shaded areas indicated detection above regulatory limits.

APPENDIX A

LABORATORY ANALYTICAL REPORTS

Summary Report

Edward Philley
CRA-Midland
2135 South Loop 250 West
Midland, TX, 79703

Report Date: January 31, 2006

Work Order: 6012505



Project Location: Eddy County,NM
Project Name: Duke-Artesia Flare Pit
Project Number: 043995

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 83009 | E. Berm | soil | 2006-01-23 | 12:50 | 2006-01-25 |
| 83010 | S. Berm | soil | 2006-01-23 | 12:57 | 2006-01-25 |
| 83011 | W. Berm | soil | 2006-01-23 | 13:05 | 2006-01-25 |
| 83012 | N. Berm | soil | 2006-01-23 | 13:13 | 2006-01-25 |
| 83013 | N Bottom | soil | 2006-01-23 | 13:25 | 2006-01-25 |
| 83014 | S. Bottom | soil | 2006-01-23 | 13:33 | 2006-01-25 |

| Sample - Field Code | BTEX | | | | MTBE | TPH DRO | TPH GRO |
|---------------------|--------------------|--------------------|-------------------------|-------------------|-----------------|----------------|----------------|
| | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethylbenzene (mg/Kg) | Xylene (mg/Kg) | MTBE (mg/Kg) | DRO (mg/Kg) | GRO (mg/Kg) |
| 83009 - E. Berm | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <50.0 | <1.00 |
| 83010 - S. Berm | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <50.0 | <1.00 |
| 83011 - W. Berm | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <50.0 | <1.00 |
| 83012 - N. Berm | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <50.0 | <1.00 |
| 83013 - N Bottom | <0.0500 | <0.0500 | <0.0500 | <0.0500 | <0.0500 | 682 | <5.00 |
| 83014 - S. Bottom | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <50.0 | <1.00 |

Sample: 83009 - E. Berm

| Param | Flag | Result | Units | RL |
|----------------|------|---------|-------|--------|
| Total Silver | | 1.54 | mg/Kg | 0.200 |
| Total Arsenic | | <1.00 | mg/Kg | 1.00 |
| Total Barium | | 398 | mg/Kg | 1.00 |
| Total Cadmium | | <0.500 | mg/Kg | 0.500 |
| Total Chromium | | 52.1 | mg/Kg | 1.00 |
| Total Mercury | | <0.0400 | mg/Kg | 0.0400 |
| Total Lead | | <1.00 | mg/Kg | 1.00 |
| Total Selenium | | <1.00 | mg/Kg | 1.00 |

Sample: 83010 - S. Berm

continued ...

sample 83010 continued ...

| Param | Flag | Result | Units | RL |
|----------------|------|--------------|-------|--------|
| Param | Flag | Result | Units | RL |
| Total Silver | | 1.15 | mg/Kg | 0.200 |
| Total Arsenic | | <1.00 | mg/Kg | 1.00 |
| Total Barium | | 266 | mg/Kg | 1.00 |
| Total Cadmium | | 0.542 | mg/Kg | 0.500 |
| Total Chromium | | 12.3 | mg/Kg | 1.00 |
| Total Mercury | | 0.123 | mg/Kg | 0.0400 |
| Total Lead | | 4.00 | mg/Kg | 1.00 |
| Total Selenium | | <1.00 | mg/Kg | 1.00 |

Sample: 83011 - W. Berm

| Param | Flag | Result | Units | RL |
|----------------|------|-------------|-------|--------|
| Total Silver | | 1.20 | mg/Kg | 0.200 |
| Total Arsenic | | <1.00 | mg/Kg | 1.00 |
| Total Barium | | 430 | mg/Kg | 1.00 |
| Total Cadmium | | <0.500 | mg/Kg | 0.500 |
| Total Chromium | | 40.1 | mg/Kg | 1.00 |
| Total Mercury | | <0.0400 | mg/Kg | 0.0400 |
| Total Lead | | 1.95 | mg/Kg | 1.00 |
| Total Selenium | | <1.00 | mg/Kg | 1.00 |

Sample: 83012 - N. Berm

| Param | Flag | Result | Units | RL |
|----------------|------|-------------|-------|--------|
| Total Silver | | 1.31 | mg/Kg | 0.200 |
| Total Arsenic | | <1.00 | mg/Kg | 1.00 |
| Total Barium | | 310 | mg/Kg | 1.00 |
| Total Cadmium | | <0.500 | mg/Kg | 0.500 |
| Total Chromium | | 12.4 | mg/Kg | 1.00 |
| Total Mercury | | <0.0400 | mg/Kg | 0.0400 |
| Total Lead | | 1.83 | mg/Kg | 1.00 |
| Total Selenium | | <1.00 | mg/Kg | 1.00 |

Sample: 83013 - N Bottom

| Param | Flag | Result | Units | RL |
|----------------|------|--------------|-------|--------|
| Total Silver | | <0.200 | mg/Kg | 0.200 |
| Total Arsenic | | 4.56 | mg/Kg | 1.00 |
| Total Barium | | 59.5 | mg/Kg | 1.00 |
| Total Cadmium | | 22.6 | mg/Kg | 0.500 |
| Total Chromium | | 93.5 | mg/Kg | 1.00 |
| Total Mercury | | 0.115 | mg/Kg | 0.0400 |
| Total Lead | | 17.9 | mg/Kg | 1.00 |
| Total Selenium | | <1.00 | mg/Kg | 1.00 |

Report Date: January 31, 2006
043995

Work Order: 6012505
Duke-Artesia Flare Pit

Page Number: 3 of 3
Eddy County,NM

Sample: 83014 - S. Bottom

| Param | Flag | Result | Units | RL |
|----------------|------|-------------|-------|--------|
| Total Silver | | <0.200 | mg/Kg | 0.200 |
| Total Arsenic | | <1.00 | mg/Kg | 1.00 |
| Total Barium | | 189 | mg/Kg | 1.00 |
| Total Cadmium | | 1.73 | mg/Kg | 0.500 |
| Total Chromium | | 18.8 | mg/Kg | 1.00 |
| Total Mercury | | <0.0400 | mg/Kg | 0.0400 |
| Total Lead | | 11.6 | mg/Kg | 1.00 |
| Total Selenium | | <1.00 | mg/Kg | 1.00 |

Analytical and Quality Control Report

Edward Philley
CRA-Midland
2135 South Loop 250 West
Midland, TX, 79703

Report Date: January 31, 2006

Work Order: 6012505



Project Location: Eddy County, NM
Project Name: Duke-Artesia Flare Pit
Project Number: 043995

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 |
|--------|-------------|--------|------------|------------|---------------|
| 83009 | E. Berm | soil | 2006-01-23 | 12:50 | 2006-01-25 |
| 83010 | S. Berm | soil | 2006-01-23 | 12:57 | 2006-01-25 |
| 83011 | W. Berm | soil | 2006-01-23 | 13:05 | 2006-01-25 |
| 83012 | N. Berm | soil | 2006-01-23 | 13:13 | 2006-01-25 |
| 83013 | N Bottom | soil | 2006-01-23 | 13:25 | 2006-01-25 |
| 83014 | S. Bottom | soil | 2006-01-23 | 13:33 | 2006-01-25 |

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 18 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 83009 - E. Berm

| | | |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5035 |
| QC Batch: 24210 | Date Analyzed: 2006-01-25 | Analyzed By: MT |
| Prep Batch: 21279 | Sample Preparation: 2006-01-25 | Prepared By: MT |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| MTBE | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Benzene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Toluene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Ethylbenzene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Xylene | | <0.0100 | mg/Kg | 10 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.916 | mg/Kg | 10 | 0.100 | 92 | 40.8 - 133.7 |
| 4-Bromofluorobenzene (4-BFB) | | 0.671 | mg/Kg | 10 | 0.100 | 67 | 40.8 - 140.1 |

Sample: 83009 - E. Berm

| | | |
|--------------------------|--------------------------------|----------------------|
| Analysis: Total 8 Metals | Analytical Method: S 6010B | Prep Method: S 3050B |
| QC Batch: 24236 | Date Analyzed: 2006-01-27 | Analyzed By: RR |
| Prep Batch: 21286 | Sample Preparation: 2006-01-26 | Prepared By: DS |
| Analysis: Total 8 Metals | Analytical Method: S 7471A | Prep Method: N/A |
| QC Batch: 24289 | Date Analyzed: 2006-01-30 | Analyzed By: TP |
| Prep Batch: 21346 | Sample Preparation: 2006-01-30 | Prepared By: TP |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|----------------|------|--------------|-------|----------|--------|
| Total Silver | | 1.54 | mg/Kg | 1 | 0.200 |
| Total Arsenic | | <1.00 | mg/Kg | 1 | 1.00 |
| Total Barium | | 398 | mg/Kg | 1 | 1.00 |
| Total Cadmium | | <0.500 | mg/Kg | 1 | 0.500 |
| Total Chromium | | 52.1 | mg/Kg | 1 | 1.00 |
| Total Mercury | | <0.0400 | mg/Kg | 1 | 0.0400 |
| Total Lead | | <1.00 | mg/Kg | 1 | 1.00 |
| Total Selenium | | <1.00 | mg/Kg | 1 | 1.00 |

Sample: 83009 - E. Berm

| | | |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B | Prep Method: N/A |
| QC Batch: 24274 | Date Analyzed: 2006-01-28 | Analyzed By: DS |
| Prep Batch: 21330 | Sample Preparation: 2006-01-27 | Prepared By: DS |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Triacontane | | 173 | mg/Kg | 1 | 150 | 115 | 50 - 150 |

Sample: 83009 - E. Berm

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Analysis: | TPH GRO | Analytical Method: | S 8015B | Prep Method: | S 5035 |
| QC Batch: | 24211 | Date Analyzed: | 2006-01-25 | Analyzed By: | MT |
| Prep Batch: | 21279 | Sample Preparation: | 2006-01-25 | Prepared By: | MT |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|-----------|-------|----------|-------|
| GRO | | <1.00 | mg/Kg | 10 | 0.100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 0.902 | mg/Kg | 10 | 0.100 | 90 | 68 - 129.6 |
| 4-Bromofluorobenzene (4-BFB) | | 0.784 | mg/Kg | 10 | 0.100 | 78 | 71.9 - 123.7 |

Sample: 83010 - S. Berm

| | | | | | |
|-------------|-------|---------------------|------------|--------------|--------|
| Analysis: | BTEX | Analytical Method: | S 8021B | Prep Method: | S 5035 |
| QC Batch: | 24210 | Date Analyzed: | 2006-01-25 | Analyzed By: | MT |
| Prep Batch: | 21279 | Sample Preparation: | 2006-01-25 | Prepared By: | MT |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|-----------|-------|----------|---------|
| MTBE | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Benzene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Toluene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Ethylbenzene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Xylene | | <0.0100 | mg/Kg | 10 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 0.934 | mg/Kg | 10 | 0.100 | 93 | 40.8 - 133.7 |
| 4-Bromofluorobenzene (4-BFB) | | 0.676 | mg/Kg | 10 | 0.100 | 68 | 40.8 - 140.1 |

Sample: 83010 - S. Berm

| | | | | | |
|-------------|----------------|---------------------|------------|--------------|---------|
| Analysis: | Total 8 Metals | Analytical Method: | S 6010B | Prep Method: | S 3050B |
| QC Batch: | 24236 | Date Analyzed: | 2006-01-27 | Analyzed By: | RR |
| Prep Batch: | 21286 | Sample Preparation: | 2006-01-26 | Prepared By: | DS |
| Analysis: | Total 8 Metals | Analytical Method: | S 7471A | Prep Method: | N/A |
| QC Batch: | 24289 | Date Analyzed: | 2006-01-30 | Analyzed By: | TP |
| Prep Batch: | 21346 | Sample Preparation: | 2006-01-30 | Prepared By: | TP |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|-----------|-------|----------|-------|
| Total Silver | | 1.15 | mg/Kg | 1 | 0.200 |

continued ...

sample 83010 continued...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|----------------|------|--------------|-------|----------|--------|
| Total Arsenic | | <1.00 | mg/Kg | 1 | 1.00 |
| Total Barium | | 266 | mg/Kg | 1 | 1.00 |
| Total Cadmium | | 0.542 | mg/Kg | 1 | 0.500 |
| Total Chromium | | 12.3 | mg/Kg | 1 | 1.00 |
| Total Mercury | | 0.123 | mg/Kg | 1 | 0.0400 |
| Total Lead | | 4.00 | mg/Kg | 1 | 1.00 |
| Total Selenium | | <1.00 | mg/Kg | 1 | 1.00 |

Sample: 83010 - S. Berm

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Analysis: | TPH DRO | Analytical Method: | Mod. 8015B | Prep Method: | N/A |
| QC Batch: | 24274 | Date Analyzed: | 2006-01-28 | Analyzed By: | DS |
| Prep Batch: | 21330 | Sample Preparation: | 2006-01-27 | Prepared By: | DS |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | | 172 | mg/Kg | 1 | 150 | 114 | 50 - 150 |

Sample: 83010 - S. Berm

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Analysis: | TPH GRO | Analytical Method: | S 8015B | Prep Method: | S 5035 |
| QC Batch: | 24211 | Date Analyzed: | 2006-01-25 | Analyzed By: | MT |
| Prep Batch: | 21279 | Sample Preparation: | 2006-01-25 | Prepared By: | MT |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| GRO | | <1.00 | mg/Kg | 10 | 0.100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.929 | mg/Kg | 10 | 0.100 | 93 | 68 - 129.6 |
| 4-Bromofluorobenzene (4-BFB) | | 0.781 | mg/Kg | 10 | 0.100 | 78 | 71.9 - 123.7 |

Sample: 83011 - W. Berm

| | | | | | |
|-------------|-------|---------------------|------------|--------------|--------|
| Analysis: | BTEX | Analytical Method: | S 8021B | Prep Method: | S 5035 |
| QC Batch: | 24210 | Date Analyzed: | 2006-01-25 | Analyzed By: | MT |
| Prep Batch: | 21279 | Sample Preparation: | 2006-01-25 | Prepared By: | MT |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|---------|
| MTBE | | <0.0100 | mg/Kg | 10 | 0.00100 |

continued...

sample 83011 continued...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Toluene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Ethylbenzene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Xylene | | <0.0100 | mg/Kg | 10 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.956 | mg/Kg | 10 | 0.100 | 96 | 40.8 - 133.7 |
| 4-Bromofluorobenzene (4-BFB) | | 0.822 | mg/Kg | 10 | 0.100 | 82 | 40.8 - 140.1 |

Sample: 83011 - W. Berm

Analysis: Total 8 Metals
QC Batch: 24236
Prep Batch: 21286
Analysis: Total 8 Metals
QC Batch: 24289
Prep Batch: 21346

Analytical Method: S 6010B
Date Analyzed: 2006-01-27
Sample Preparation: 2006-01-26
Analytical Method: S 7471A
Date Analyzed: 2006-01-30
Sample Preparation: 2006-01-30

Prep Method: S 3050B
Analyzed By: RR
Prepared By: DS
Prep Method: N/A
Analyzed By: TP
Prepared By: TP

| Parameter | Flag | RL Result | Units | Dilution | RL |
|----------------|------|--------------|-------|----------|--------|
| Total Silver | | 1.20 | mg/Kg | 1 | 0.200 |
| Total Arsenic | | <1.00 | mg/Kg | 1 | 1.00 |
| Total Barium | | 430 | mg/Kg | 1 | 1.00 |
| Total Cadmium | | <0.500 | mg/Kg | 1 | 0.500 |
| Total Chromium | | 40.1 | mg/Kg | 1 | 1.00 |
| Total Mercury | | <0.0400 | mg/Kg | 1 | 0.0400 |
| Total Lead | | 1.95 | mg/Kg | 1 | 1.00 |
| Total Selenium | | <1.00 | mg/Kg | 1 | 1.00 |

Sample: 83011 - W. Berm

Analysis: TPH DRO
QC Batch: 24274
Prep Batch: 21330

Analytical Method: Mod. 8015B
Date Analyzed: 2006-01-28
Sample Preparation: 2006-01-27

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | | 205 | mg/Kg | 1 | 150 | 136 | 50 - 150 |

Sample: 83011 - W. Berm

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Analysis: | TPH GRO | Analytical Method: | S 8015B | Prep Method: | S 5035 |
| QC Batch: | 24211 | Date Analyzed: | 2006-01-25 | Analyzed By: | MT |
| Prep Batch: | 21279 | Sample Preparation: | 2006-01-25 | Prepared By: | MT |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| GRO | | <1.00 | mg/Kg | 10 | 0.100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.932 | mg/Kg | 10 | 0.100 | 93 | 68 - 129.6 |
| 4-Bromofluorobenzene (4-BFB) | | 0.950 | mg/Kg | 10 | 0.100 | 95 | 71.9 - 123.7 |

Sample: 83012 - N. Berm

| | | | | | |
|-------------|-------|---------------------|------------|--------------|--------|
| Analysis: | BTEX | Analytical Method: | S 8021B | Prep Method: | S 5035 |
| QC Batch: | 24210 | Date Analyzed: | 2006-01-25 | Analyzed By: | MT |
| Prep Batch: | 21279 | Sample Preparation: | 2006-01-25 | Prepared By: | MT |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| MTBE | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Benzene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Toluene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Ethylbenzene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Xylene | | <0.0100 | mg/Kg | 10 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 1.01 | mg/Kg | 10 | 0.100 | 101 | 40.8 - 133.7 |
| 4-Bromofluorobenzene (4-BFB) | | 0.872 | mg/Kg | 10 | 0.100 | 87 | 40.8 - 140.1 |

Sample: 83012 - N. Berm

| | | | | | |
|-------------|----------------|---------------------|------------|--------------|---------|
| Analysis: | Total 8 Metals | Analytical Method: | S 6010B | Prep Method: | S 3050B |
| QC Batch: | 24236 | Date Analyzed: | 2006-01-27 | Analyzed By: | RR |
| Prep Batch: | 21286 | Sample Preparation: | 2006-01-26 | Prepared By: | DS |
| Analysis: | Total 8 Metals | Analytical Method: | S 7471A | Prep Method: | N/A |
| QC Batch: | 24289 | Date Analyzed: | 2006-01-30 | Analyzed By: | TP |
| Prep Batch: | 21346 | Sample Preparation: | 2006-01-30 | Prepared By: | TP |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|----------------|------|--------------|-------|----------|--------|
| Total Silver | | 1.31 | mg/Kg | 1 | 0.200 |
| Total Arsenic | | <1.00 | mg/Kg | 1 | 1.00 |
| Total Barium | | 310 | mg/Kg | 1 | 1.00 |
| Total Cadmium | | <0.500 | mg/Kg | 1 | 0.500 |
| Total Chromium | | 12.4 | mg/Kg | 1 | 1.00 |
| Total Mercury | | <0.0400 | mg/Kg | 1 | 0.0400 |

continued...

sample 83012 continued...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|----------------|------|--------------|-------|----------|------|
| Total Lead | | 1.83 | mg/Kg | 1 | 1.00 |
| Total Selenium | | <1.00 | mg/Kg | 1 | 1.00 |

Sample: 83012 - N. Berm

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Analysis: | TPH DRO | Analytical Method: | Mod. 8015B | Prep Method: | N/A |
| QC Batch: | 24274 | Date Analyzed: | 2006-01-28 | Analyzed By: | DS |
| Prep Batch: | 21330 | Sample Preparation: | 2006-01-27 | Prepared By: | DS |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | | 197 | mg/Kg | 1 | 150 | 131 | 50 - 150 |

Sample: 83012 - N. Berm

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Analysis: | TPH GRO | Analytical Method: | S 8015B | Prep Method: | S 5035 |
| QC Batch: | 24211 | Date Analyzed: | 2006-01-25 | Analyzed By: | MT |
| Prep Batch: | 21279 | Sample Preparation: | 2006-01-25 | Prepared By: | MT |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| GRO | | <1.00 | mg/Kg | 10 | 0.100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.989 | mg/Kg | 10 | 0.100 | 99 | 68 - 129.6 |
| 4-Bromofluorobenzene (4-BFB) | | 1.01 | mg/Kg | 10 | 0.100 | 101 | 71.9 - 123.7 |

Sample: 83013 - N Bottom

| | | | | | |
|-------------|-------|---------------------|------------|--------------|--------|
| Analysis: | BTEX | Analytical Method: | S 8021B | Prep Method: | S 5035 |
| QC Batch: | 24210 | Date Analyzed: | 2006-01-25 | Analyzed By: | MT |
| Prep Batch: | 21279 | Sample Preparation: | 2006-01-25 | Prepared By: | MT |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| MTBE | | <0.0500 | mg/Kg | 50 | 0.00100 |
| Benzene | 1 | <0.0500 | mg/Kg | 50 | 0.00100 |
| Toluene | | <0.0500 | mg/Kg | 50 | 0.00100 |
| Ethylbenzene | | <0.0500 | mg/Kg | 50 | 0.00100 |

continued...

¹Sample ran at dilution due to surfactants.

sample 83013 continued...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|---------|
| Xylene | | <0.0500 | mg/Kg | 50 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | ² | 1.12 | mg/Kg | 50 | 0.100 | 22 | 40.8 - 133.7 |
| 4-Bromofluorobenzene (4-BFB) | ³ | 1.02 | mg/Kg | 50 | 0.100 | 20 | 40.8 - 140.1 |

Sample: 83013 - N Bottom

| | | |
|--------------------------|--------------------------------|----------------------|
| Analysis: Total 8 Metals | Analytical Method: S 6010B | Prep Method: S 3050B |
| QC Batch: 24236 | Date Analyzed: 2006-01-27 | Analyzed By: RR |
| Prep Batch: 21286 | Sample Preparation: 2006-01-26 | Prepared By: DS |
| Analysis: Total 8 Metals | Analytical Method: S 7471A | Prep Method: N/A |
| QC Batch: 24289 | Date Analyzed: 2006-01-30 | Analyzed By: TP |
| Prep Batch: 21346 | Sample Preparation: 2006-01-30 | Prepared By: TP |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|----------------|------|--------------|-------|----------|--------|
| Total Silver | | <0.200 | mg/Kg | 1 | 0.200 |
| Total Arsenic | | 4.56 | mg/Kg | 1 | 1.00 |
| Total Barium | | 59.5 | mg/Kg | 1 | 1.00 |
| Total Cadmium | | 22.6 | mg/Kg | 1 | 0.500 |
| Total Chromium | | 93.5 | mg/Kg | 1 | 1.00 |
| Total Mercury | | 0.115 | mg/Kg | 1 | 0.0400 |
| Total Lead | | 17.9 | mg/Kg | 1 | 1.00 |
| Total Selenium | | <1.00 | mg/Kg | 1 | 1.00 |

Sample: 83013 - N Bottom

| | | |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B | Prep Method: N/A |
| QC Batch: 24292 | Date Analyzed: 2006-01-30 | Analyzed By: DS |
| Prep Batch: 21349 | Sample Preparation: 2006-01-30 | Prepared By: DS |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | 682 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | ⁴ | 480 | mg/Kg | 1 | 150 | 320 | 57.5 - 139 |

Sample: 83013 - N Bottom

| | | |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B | Prep Method: S 5035 |
| QC Batch: 24211 | Date Analyzed: 2006-01-25 | Analyzed By: MT |
| Prep Batch: 21279 | Sample Preparation: 2006-01-25 | Prepared By: MT |

²Surrogate recovery out due to dilution caused by surfactants in the sample.

³Surrogate recovery out due to dilution caused by surfactants in the sample.

⁴High surrogate recovery due to peak interference.

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| GRO | 5 | <5.00 | mg/Kg | 50 | 0.100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | 6 | 1.17 | mg/Kg | 50 | 0.100 | 23 | 68 - 129.6 |
| 4-Bromofluorobenzene (4-BFB) | 7 | 1.17 | mg/Kg | 50 | 0.100 | 23 | 71.9 - 123.7 |

Sample: 83014 - S. Bottom

| | | |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5035 |
| QC Batch: 24210 | Date Analyzed: 2006-01-25 | Analyzed By: MT |
| Prep Batch: 21279 | Sample Preparation: 2006-01-25 | Prepared By: MT |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| MTBE | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Benzene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Toluene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Ethylbenzene | | <0.0100 | mg/Kg | 10 | 0.00100 |
| Xylene | | <0.0100 | mg/Kg | 10 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.913 | mg/Kg | 10 | 0.100 | 91 | 40.8 - 133.7 |
| 4-Bromofluorobenzene (4-BFB) | | 0.706 | mg/Kg | 10 | 0.100 | 71 | 40.8 - 140.1 |

Sample: 83014 - S. Bottom

| | | |
|--------------------------|--------------------------------|----------------------|
| Analysis: Total 8 Metals | Analytical Method: S 6010B | Prep Method: S 3050B |
| QC Batch: 24236 | Date Analyzed: 2006-01-27 | Analyzed By: RR |
| Prep Batch: 21286 | Sample Preparation: 2006-01-26 | Prepared By: DS |
| Analysis: Total 8 Metals | Analytical Method: S 7471A | Prep Method: N/A |
| QC Batch: 24289 | Date Analyzed: 2006-01-30 | Analyzed By: TP |
| Prep Batch: 21346 | Sample Preparation: 2006-01-30 | Prepared By: TP |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|----------------|------|--------------|-------|----------|--------|
| Total Silver | | <0.200 | mg/Kg | 1 | 0.200 |
| Total Arsenic | | <1.00 | mg/Kg | 1 | 1.00 |
| Total Barium | | 189 | mg/Kg | 1 | 1.00 |
| Total Cadmium | | 1.73 | mg/Kg | 1 | 0.500 |
| Total Chromium | | 18.8 | mg/Kg | 1 | 1.00 |
| Total Mercury | | <0.0400 | mg/Kg | 1 | 0.0400 |
| Total Lead | | 11.6 | mg/Kg | 1 | 1.00 |
| Total Selenium | | <1.00 | mg/Kg | 1 | 1.00 |

⁵Sample ran at dilution due to surfactants.

⁶Surrogate recovery out due to dilution caused by surfactants in the sample.

⁷Surrogate recovery out due to dilution caused by surfactants in the sample.

Sample: 83014 - S. Bottom

| | | |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B | Prep Method: N/A |
| QC Batch: 24274 | Date Analyzed: 2006-01-28 | Analyzed By: DS |
| Prep Batch: 21330 | Sample Preparation: 2006-01-27 | Prepared By: DS |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | | 198 | mg/Kg | 1 | 150 | 132 | 50 - 150 |

Sample: 83014 - S. Bottom

| | | |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B | Prep Method: S 5035 |
| QC Batch: 24211 | Date Analyzed: 2006-01-25 | Analyzed By: MT |
| Prep Batch: 21279 | Sample Preparation: 2006-01-25 | Prepared By: MT |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| GRO | | <1.00 | mg/Kg | 10 | 0.100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.912 | mg/Kg | 10 | 0.100 | 91 | 68 - 129.6 |
| 4-Bromofluorobenzene (4-BFB) | | 0.817 | mg/Kg | 10 | 0.100 | 82 | 71.9 - 123.7 |

Method Blank (1) QC Batch: 24210

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|-------|
| MTBE | | <0.0152 | mg/Kg | 0.001 |
| Benzene | | <0.00333 | mg/Kg | 0.001 |
| Toluene | | <0.00353 | mg/Kg | 0.001 |
| Ethylbenzene | | <0.00339 | mg/Kg | 0.001 |
| Xylene | | <0.0103 | mg/Kg | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.922 | mg/Kg | 10 | 0.100 | 92 | 74.5 - 114 |
| 4-Bromofluorobenzene (4-BFB) | | 0.662 | mg/Kg | 10 | 0.100 | 66 | 36.6 - 112 |

Method Blank (1) QC Batch: 24211

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| GRO | | 2.12 | mg/Kg | 0.1 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 1.08 | mg/Kg | 10 | 0.100 | 108 | 81.8 - 109 |
| 4-Bromofluorobenzene (4-BFB) | | 0.794 | mg/Kg | 10 | 0.100 | 79 | 50.7 - 113 |

Method Blank (1) QC Batch: 24236

| Parameter | Flag | MDL Result | Units | RL |
|----------------|------|------------|-------|-----|
| Total Silver | | <0.0444 | mg/Kg | 0.2 |
| Total Arsenic | | <0.228 | mg/Kg | 1 |
| Total Barium | | <0.601 | mg/Kg | 1 |
| Total Cadmium | | <0.0795 | mg/Kg | 0.5 |
| Total Chromium | | <0.125 | mg/Kg | 1 |
| Total Lead | | <0.650 | mg/Kg | 1 |
| Total Selenium | | <0.767 | mg/Kg | 1 |

Method Blank (1) QC Batch: 24274

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|------------|-------|----|
| DRO | | <12.0 | mg/Kg | 50 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Triacontane | | 185 | mg/Kg | 1 | 150 | 123 | 50 - 150 |

Method Blank (1) QC Batch: 24289

| Parameter | Flag | MDL Result | Units | RL |
|---------------|------|------------|-------|------|
| Total Mercury | | <0.00880 | mg/Kg | 0.04 |

Method Blank (1) QC Batch: 24292

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|------------|-------|----|
| DRO | | <10.9 | mg/Kg | 50 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Triacontane | | 144 | mg/Kg | 1 | 150 | 96 | 57.5 - 139 |

Laboratory Control Spike (LCS-1) QC Batch: 24210

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------|------------|-------------|-------|------|--------------|---------------|------|-----|--------------|-----------|
| MTBE | 0.829 | 0.909 | mg/Kg | 10 | 0.100 | <0.0152 | 83 | 9 | 81.2 - 105.8 | 10.6 |
| Benzene | 0.982 | 0.954 | mg/Kg | 10 | 0.100 | <0.0333 | 98 | 3 | 83.6 - 107.3 | 20 |
| Toluene | 1.01 | 0.994 | mg/Kg | 10 | 0.100 | <0.0353 | 101 | 2 | 81.8 - 108.6 | 20 |
| Ethylbenzene | 0.988 | 0.972 | mg/Kg | 10 | 0.100 | <0.0339 | 99 | 2 | 76.4 - 113.9 | 20 |
| Xylene | 2.95 | 2.91 | mg/Kg | 10 | 0.300 | <0.103 | 98 | 1 | 75.4 - 112.7 | 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 |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT) | 0.930 | 0.974 | mg/Kg | 10 | 0.100 | 93 | 97 | 76.6 - 114 |
| 4-Bromofluorobenzene (4-BFB) | 0.853 | 0.884 | mg/Kg | 10 | 0.100 | 85 | 88 | 72 - 111 |

Laboratory Control Spike (LCS-1) QC Batch: 24211

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|-------|------------|-------------|-------|------|--------------|---------------|------|-----|--------------|-----------|
| GRO | 9.67 | 9.91 | mg/Kg | 10 | 1.00 | <0.381 | 97 | 2 | 88.8 - 102.4 | 21 |

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 |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT) | 1.00 | 0.996 | mg/Kg | 10 | 0.100 | 100 | 100 | 80.4 - 113 |
| 4-Bromofluorobenzene (4-BFB) | 1.02 | 0.990 | mg/Kg | 10 | 0.100 | 102 | 99 | 72.2 - 119 |

Laboratory Control Spike (LCS-1) QC Batch: 24236

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Total Silver | 11.8 | 11.9 | mg/Kg | 1 | 12.5 | <0.0444 | 94 | 1 | 85 - 115 | 20 |
| Total Arsenic | 46.7 | 46.8 | mg/Kg | 1 | 50.0 | <0.228 | 93 | 0 | 85 - 108 | 20 |
| Total Barium | 88.7 | 88.9 | mg/Kg | 1 | 100 | <0.601 | 89 | 0 | 85 - 107 | 20 |
| Total Cadmium | 22.5 | 22.7 | mg/Kg | 1 | 25.0 | <0.0795 | 90 | 1 | 85 - 103 | 20 |
| Total Chromium | 10.1 | 10.1 | mg/Kg | 1 | 10.0 | <0.125 | 101 | 0 | 85 - 113 | 20 |
| Total Lead | 44.8 | 44.7 | mg/Kg | 1 | 50.0 | <0.650 | 90 | 0 | 85 - 110 | 20 |
| Total Selenium | 44.2 | 43.9 | mg/Kg | 1 | 50.0 | <0.767 | 88 | 1 | 85 - 100 | 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: 24274

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|-------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| DRO | 246 | 248 | mg/Kg | 1 | 250 | <12.0 | 98 | 1 | 70 - 130 | 20 |

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

continued...

control spikes continued...

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
| n-Triacontane | 186 | 189 | mg/Kg | 1 | 150 | 124 | 126 | 50 - 150 |

Laboratory Control Spike (LCS-1) QC Batch: 24289

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------|---------------|----------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| Total Mercury | 0.466 | 0.519 | mg/Kg | 1 | 0.500 | <0.00880 | 93 | 11 | 79.5 - 121.1 | 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: 24292

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|-------|---------------|----------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| DRO | 243 | 249 | mg/Kg | 1 | 250 | <10.9 | 97 | 2 | 84 - 118 | 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 |
|---------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Triacontane | 151 | 151 | mg/Kg | 1 | 150 | 101 | 101 | 57.5 - 139 |

Matrix Spike (MS-1) QC Batch: 24210 Spiked Sample: 83009

| Param | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------|--------------|---------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| MTBE | 0.692 | 0.772 | mg/Kg | 10 | 0.100 | <0.0152 | 69 | 11 | 55.9 - 144.2 | 16.5 |
| Benzene | 0.819 | 0.848 | mg/Kg | 10 | 0.100 | <0.0333 | 82 | 4 | 50.1 - 124.5 | 20 |
| Toluene | 0.872 | 0.908 | mg/Kg | 10 | 0.100 | <0.0353 | 87 | 4 | 51.6 - 128.1 | 20 |
| Ethylbenzene | 0.902 | 0.924 | mg/Kg | 10 | 0.100 | <0.0339 | 90 | 2 | 53.6 - 135 | 20 |
| Xylene | 2.71 | 2.76 | mg/Kg | 10 | 0.300 | <0.103 | 90 | 2 | 50.6 - 134.1 | 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 |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 0.892 | 0.921 | mg/Kg | 10 | 0.1 | 89 | 92 | 60.1 - 104 |
| 4-Bromofluorobenzene (4-BFB) | 0.721 | 0.692 | mg/Kg | 10 | 0.1 | 72 | 69 | 63.1 - 105 |

Matrix Spike (MS-1) QC Batch: 24211 Spiked Sample: 83009

| Param | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|-------|--------------|---------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| GRO | 7.82 | 9.24 | mg/Kg | 10 | 1.00 | <0.381 | 78 | 17 | 54.2 - 156.3 | 19.6 |

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 |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 0.726 | 0.794 | mg/Kg | 10 | 0.1 | 73 | 79 | 10 - 160 |
| 4-Bromofluorobenzene (4-BFB) | 0.832 | 0.925 | mg/Kg | 10 | 0.1 | 83 | 92 | 10 - 174 |

Matrix Spike (MS-1) QC Batch: 24236 Spiked Sample:

| Param | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------------------------|--------------|---------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| Total Silver | 11.3 | 11.3 | mg/Kg | 1 | 12.5 | <0.0444 | 90 | 0 | 76.3 - 115 | 20 |
| Total Arsenic | 47.8 | 48.0 | mg/Kg | 1 | 50.0 | 5.43 | 85 | 0 | 75 - 108 | 20 |
| Total Barium ⁸⁹ | 922 | 929 | mg/Kg | 1 | 100 | 900 | 22 | 1 | 75 - 125 | 20 |
| Total Cadmium | 21.2 | 21.3 | mg/Kg | 1 | 25.0 | 2.12 | 76 | 0 | 75 - 100 | 20 |
| Total Chromium | 16.3 | 16.3 | mg/Kg | 1 | 10.0 | 6.76 | 95 | 0 | 75 - 125 | 20 |
| Total Lead | 45.7 | 45.8 | mg/Kg | 1 | 50.0 | 7.5 | 76 | 0 | 75 - 109 | 20 |
| Total Selenium | 44.8 | 44.8 | mg/Kg | 1 | 50.0 | <0.767 | 90 | 0 | 75 - 100 | 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: 24274 Spiked Sample: 83014

| Param | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|-------|--------------|---------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| DRO | 196 | 231 | mg/Kg | 1 | 250 | <12.0 | 78 | 16 | 70 - 130 | 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 |
|---------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| n-Triacontane | 191 | 208 | mg/Kg | 1 | 150 | 127 | 139 | 50 - 150 |

Matrix Spike (MS-1) QC Batch: 24289 Spiked Sample: 82895

| Param | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------|--------------|---------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| Total Mercury | 0.464 | 0.474 | mg/Kg | 1 | 0.500 | 0.015 | 90 | 2 | 80.1 - 125.3 | 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: 24292 Spiked Sample: 83013

| Param | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------------|--------------|---------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| DRO ¹⁰¹¹ | 1280 | 1380 | mg/Kg | 1 | 250 | 682 | 239 | 8 | 70 - 130 | 20 |

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

⁸Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

¹⁰Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹¹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

| Surrogate | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|---------------|-----------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| n-Triacontane | ¹²¹³ | 595 | 598 | mg/Kg | 1 | 150 | 397 | 399 | 57.5 - 139 |

Standard (ICV-1) QC Batch: 24210

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE | | mg/Kg | 0.100 | 0.0895 | 90 | 85 - 115 | 2006-01-25 |
| Benzene | | mg/Kg | 0.100 | 0.0987 | 99 | 85 - 115 | 2006-01-25 |
| Toluene | | mg/Kg | 0.100 | 0.103 | 103 | 85 - 115 | 2006-01-25 |
| Ethylbenzene | | mg/Kg | 0.100 | 0.100 | 100 | 85 - 115 | 2006-01-25 |
| Xylene | | mg/Kg | 0.300 | 0.301 | 100 | 85 - 115 | 2006-01-25 |

Standard (CCV-1) QC Batch: 24210

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE | | mg/Kg | 0.100 | 0.0957 | 96 | 85 - 115 | 2006-01-25 |
| Benzene | | mg/Kg | 0.100 | 0.0968 | 97 | 85 - 115 | 2006-01-25 |
| Toluene | | mg/Kg | 0.100 | 0.101 | 101 | 85 - 115 | 2006-01-25 |
| Ethylbenzene | | mg/Kg | 0.100 | 0.0981 | 98 | 85 - 115 | 2006-01-25 |
| Xylene | | mg/Kg | 0.300 | 0.294 | 98 | 85 - 115 | 2006-01-25 |

Standard (ICV-1) QC Batch: 24211

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | mg/L | 1.00 | 0.958 | 96 | 85 - 115 | 2006-01-25 |

Standard (CCV-1) QC Batch: 24211

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | mg/L | 1.00 | 0.947 | 95 | 85 - 115 | 2006-01-25 |

Standard (ICV-1) QC Batch: 24236

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Silver | | mg/Kg | 0.125 | 0.123 | 98 | 90 - 110 | 2006-01-27 |
| Total Arsenic | | mg/Kg | 1.00 | 0.976 | 98 | 90 - 110 | 2006-01-27 |

continued...

¹²High surrogate recovery due to peak interference.

¹³High surrogate recovery due to peak interference.

standard continued...

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Barium | | mg/Kg | 1.00 | 0.970 | 97 | 90 - 110 | 2006-01-27 |
| Total Cadmium | | mg/Kg | 1.00 | 0.984 | 98 | 90 - 110 | 2006-01-27 |
| Total Chromium | | mg/Kg | 1.00 | 0.982 | 98 | 90 - 110 | 2006-01-27 |
| Total Lead | | mg/Kg | 1.00 | 0.984 | 98 | 90 - 110 | 2006-01-27 |
| Total Selenium | | mg/Kg | 1.00 | 0.977 | 98 | 90 - 110 | 2006-01-27 |

Standard (CCV-1) QC Batch: 24236

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Silver | | mg/Kg | 0.125 | 0.123 | 98 | 90 - 110 | 2006-01-27 |
| Total Arsenic | | mg/Kg | 1.00 | 0.981 | 98 | 90 - 110 | 2006-01-27 |
| Total Barium | | mg/Kg | 1.00 | 0.967 | 97 | 90 - 110 | 2006-01-27 |
| Total Cadmium | | mg/Kg | 1.00 | 0.984 | 98 | 90 - 110 | 2006-01-27 |
| Total Chromium | | mg/Kg | 1.00 | 0.984 | 98 | 90 - 110 | 2006-01-27 |
| Total Lead | | mg/Kg | 1.00 | 0.988 | 99 | 90 - 110 | 2006-01-27 |
| Total Selenium | | mg/Kg | 1.00 | 0.977 | 98 | 90 - 110 | 2006-01-27 |

Standard (ICV-1) QC Batch: 24274

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | mg/Kg | 250 | 243 | 97 | 75 - 125 | 2006-01-28 |

Standard (CCV-1) QC Batch: 24274

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | mg/Kg | 250 | 272 | 109 | 75 - 125 | 2006-01-28 |

Standard (ICV-1) QC Batch: 24289

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Mercury | | mg/L | 0.00500 | 0.00461 | 92 | 90 - 110 | 2006-01-30 |

Standard (CCV-1) QC Batch: 24289

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Mercury | | mg/L | 0.00500 | 0.00493 | 99 | 80 - 120 | 2006-01-30 |

Standard (ICV-1) QC Batch: 24292

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | mg/Kg | 250 | 247 | 99 | 57.5 - 139 | 2006-01-30 |

Standard (CCV-1) QC Batch: 24292

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | mg/Kg | 250 | 248 | 99 | 57.5 - 139 | 2006-01-30 |

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| <p>TraceAnalysis, Inc. 155 McCutcheon Suite H El Paso, Texas 79932 Tel (915) 585-3443 Fax (915) 585-4944 1 (800) 378-1286 email: lab@traceanalysis.com</p> <p>Company Name: CRA Phone #: (432) 686-0080 Address: (Street, City, Zip) Fax #: e-philly@CRA.com Contact Person: Edward (Ted) Philly Invoice to: (If different from above) Project #: 043995 Project Name: Duke - Artesia Flare Pit Project Location: Eddy County, NM Sampler Signature: <i>[Signature]</i></p> | | <p>CHAIN-OF-CUSTODY AND ANALYSIS REQUEST LAB Order ID # 6012505</p> <p>ANALYSIS REQUEST (Circle or Specify Method No.)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>TX 1005 Extended (C35)</td><td></td></tr> <tr><td>PAH 8270C</td><td></td></tr> <tr><td>Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7</td><td></td></tr> <tr><td>TCLP Metals Ag As Ba Cd Cr Pb Se Hg</td><td></td></tr> <tr><td>TCLP Volatiles</td><td></td></tr> <tr><td>TCLP Semi Volatiles</td><td></td></tr> <tr><td>TCLP Pesticides</td><td></td></tr> <tr><td>RCI</td><td></td></tr> <tr><td>GC/MS Vol. 8260B/624</td><td></td></tr> <tr><td>GC/MS Semi. Vol. 8270C/625</td><td></td></tr> <tr><td>PCBs 8082/608</td><td></td></tr> <tr><td>Pesticides 8081A/608</td><td></td></tr> <tr><td>BOD, TSS, pH</td><td></td></tr> <tr><td>Moisture Content</td><td></td></tr> <tr><td>Turn Around Time if different from standard</td><td></td></tr> </table> | | TX 1005 Extended (C35) | | 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 | | PCBs 8082/608 | | Pesticides 8081A/608 | | BOD, TSS, pH | | Moisture Content | | Turn Around Time if different from standard | | <p>LAB USE ONLY</p> <p>Intact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Headspace <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Temp <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Log-in Review <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p> <p>Carrier # Line Star P1827749</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------|---|------------|------------------------|---------------|--------------|---------------|--|------------------|-------------------------------------|------|---------------------|-------|---------------------|------|-----------------|------|-----|--------|----------------------|------------------|--------------------------------|------|---------------|------|----------------------|---------|--------------|-----|------------------|--|---|--|--|--|--|--|------|-------|----|---------|---|-----|---|--|--|--|--|--|--|--|------|-------|----|---------|---|-----|---|--|--|--|--|--|--|--|------|-------|----|---------|---|-----|---|--|--|--|--|--|--|--|------|-------|----|-----------|---|-----|---|--|--|--|--|--|--|--|------|-------|----|-----------|---|-----|---|--|--|--|--|--|--|--|------|-------|--|--|
| TX 1005 Extended (C35) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PCBs 8082/608 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pesticides 8081A/608 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOD, TSS, pH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moisture Content | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turn Around Time if different from standard | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">LAB # (LAB USE ONLY)</th> <th rowspan="2">FIELD CODE</th> <th rowspan="2"># CONTAINERS</th> <th rowspan="2">Volume/Amount</th> <th colspan="4">MATRIX</th> <th colspan="4">PRESERVATIVE METHOD</th> <th rowspan="2">DATE</th> <th rowspan="2">TIME</th> </tr> <tr> <th>WATER</th> <th>SOIL</th> <th>AIR</th> <th>SLUDGE</th> <th>HCl</th> <th>HNO₃</th> <th>H₂SO₄</th> <th>NaOH</th> <th>ICE</th> <th>NONE</th> </tr> </thead> <tbody> <tr> <td>83009</td> <td>E. Berm</td> <td>1</td> <td>4oz</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/23</td> <td>12:50</td> </tr> <tr> <td>10</td> <td>S. Berm</td> <td>1</td> <td>4oz</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/23</td> <td>12:57</td> </tr> <tr> <td>11</td> <td>W. Berm</td> <td>1</td> <td>4oz</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/23</td> <td>13:05</td> </tr> <tr> <td>12</td> <td>N. Berm</td> <td>1</td> <td>4oz</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/23</td> <td>13:13</td> </tr> <tr> <td>13</td> <td>N. Bottom</td> <td>1</td> <td>4oz</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/23</td> <td>13:15</td> </tr> <tr> <td>14</td> <td>S. Bottom</td> <td>1</td> <td>4oz</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/23</td> <td>13:33</td> </tr> </tbody> </table> | | LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX | | | | PRESERVATIVE METHOD | | | | DATE | TIME | WATER | SOIL | AIR | SLUDGE | HCl | HNO ₃ | H ₂ SO ₄ | NaOH | ICE | NONE | 83009 | E. Berm | 1 | 4oz | ✓ | | | | | | | | 1/23 | 12:50 | 10 | S. Berm | 1 | 4oz | ✓ | | | | | | | | 1/23 | 12:57 | 11 | W. Berm | 1 | 4oz | ✓ | | | | | | | | 1/23 | 13:05 | 12 | N. Berm | 1 | 4oz | ✓ | | | | | | | | 1/23 | 13:13 | 13 | N. Bottom | 1 | 4oz | ✓ | | | | | | | | 1/23 | 13:15 | 14 | S. Bottom | 1 | 4oz | ✓ | | | | | | | | 1/23 | 13:33 | <p>RECEIVED BY: <i>[Signature]</i> Date: 1/24/06 Time: 1445</p> <p>RECEIVED BY: <i>[Signature]</i> Date: 1/24/06 Time: 1445</p> <p>RECEIVED BY: <i>[Signature]</i> Date: 1/24/06 Time: 1445</p> | |
| LAB # (LAB USE ONLY) | FIELD CODE | | | | | # CONTAINERS | Volume/Amount | MATRIX | | | | PRESERVATIVE METHOD | | | | DATE | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | WATER | SOIL | AIR | SLUDGE | | | HCl | HNO ₃ | H ₂ SO ₄ | NaOH | ICE | NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 83009 | E. Berm | 1 | 4oz | ✓ | | | | | | | | 1/23 | 12:50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | S. Berm | 1 | 4oz | ✓ | | | | | | | | 1/23 | 12:57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | W. Berm | 1 | 4oz | ✓ | | | | | | | | 1/23 | 13:05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | N. Berm | 1 | 4oz | ✓ | | | | | | | | 1/23 | 13:13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | N. Bottom | 1 | 4oz | ✓ | | | | | | | | 1/23 | 13:15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | S. Bottom | 1 | 4oz | ✓ | | | | | | | | 1/23 | 13:33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ORIGINAL COPY

Summary Report

Edward Philley
CRA-Midland
2135 South Loop 250 West
Midland, TX, 79703

Report Date: February 17, 2006

Work Order: 6012505



Project Location: Eddy County,NM
Project Name: Duke-Artesia Flare Pit
Project Number: 043995

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 83009 | E. Berm | soil | 2006-01-23 | 12:50 | 2006-01-25 |
| 83010 | S. Berm | soil | 2006-01-23 | 12:57 | 2006-01-25 |
| 83011 | W. Berm | soil | 2006-01-23 | 13:05 | 2006-01-25 |
| 83012 | N. Berm | soil | 2006-01-23 | 13:13 | 2006-01-25 |
| 83013 | N Bottom | soil | 2006-01-23 | 13:25 | 2006-01-25 |
| 83014 | S. Bottom | soil | 2006-01-23 | 13:33 | 2006-01-25 |

Sample: 83009 - E. Berm

| 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 | 1 | 7.00 | s.u. | 0.00 |
| Ignitability | | non-ignitable | | 0.00 |

Sample: 83010 - S. Berm

| 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 | 2 | 7.00 | s.u. | 0.00 |
| Ignitability | | non-ignitable | | 0.00 |

Sample: 83011 - W. Berm

¹ph taken by ph paper due to sample conditions •

²ph taken by ph paper due to sample conditions •

Report Date: February 17, 2006
043995

Work Order: 6012505
Duke-Artesia Flare Pit

Page Number: 2 of 2
Eddy County, NM

| 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 | 3 | 7.00 | s.u. | 0.00 |
| Ignitability | | non-ignitable | | 0.00 |

Sample: 83012 - N. Berm

| 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 | 4 | 7.00 | s.u. | 0.00 |
| Ignitability | | non-ignitable | | 0.00 |

Sample: 83013 - N Bottom

| 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 | 5 | 7.00 | s.u. | 0.00 |
| Ignitability | | non-ignitable | | 0.00 |

Sample: 83014 - S. Bottom

| 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 | 7.00 | s.u. | 0.00 |
| Ignitability | | non-ignitable | | 0.00 |

³ph taken by ph paper due to sample conditions •

⁴ph taken by ph paper due to sample conditions •

⁵ph taken by ph paper due to sample conditions •

⁶ph taken by ph paper due to sample conditions •

Analytical and Quality Control Report

Edward Philley
CRA-Midland
2135 South Loop 250 West
Midland, TX, 79703

Report Date: February 17, 2006

Work Order: 6012505



Project Location: Eddy County, NM
Project Name: Duke-Artesia Flare Pit
Project Number: 043995

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 |
|--------|-------------|--------|------------|------------|---------------|
| 83009 | E. Berm | soil | 2006-01-23 | 12:50 | 2006-01-25 |
| 83010 | S. Berm | soil | 2006-01-23 | 12:57 | 2006-01-25 |
| 83011 | W. Berm | soil | 2006-01-23 | 13:05 | 2006-01-25 |
| 83012 | N. Berm | soil | 2006-01-23 | 13:13 | 2006-01-25 |
| 83013 | N Bottom | soil | 2006-01-23 | 13:25 | 2006-01-25 |
| 83014 | S. Bottom | soil | 2006-01-23 | 13:33 | 2006-01-25 |

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 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 83009 - E. Berm

| | | | | | |
|-------------|-------|---------------------|------------------------|--------------|-----|
| Analysis: | RCI | Analytical Method: | S 1110 | Prep Method: | N/A |
| QC Batch: | 24682 | Date Analyzed: | 2006-02-17 | Analyzed By: | SD |
| Prep Batch: | 21688 | Sample Preparation: | 2006-02-16 | Prepared By: | SD |
| Analysis: | RCI | Analytical Method: | SW-846 Ch. 7.1 | Prep Method: | N/A |
| Analysis: | RCI | Analytical Method: | ASTM D 5049-90/4978-95 | Prep Method: | N/A |

| Parameter | Flag | RL 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 | 1 | 7.00 | s.u. | 1 | 0.00 |
| Ignitability | | non-ignitable | | 1 | 0.00 |

Sample: 83010 - S. Berm

| | | | | | |
|-------------|-------|---------------------|------------------------|--------------|-----|
| Analysis: | RCI | Analytical Method: | S 1110 | Prep Method: | N/A |
| QC Batch: | 24682 | Date Analyzed: | 2006-02-17 | Analyzed By: | SD |
| Prep Batch: | 21688 | Sample Preparation: | 2006-02-16 | Prepared By: | SD |
| Analysis: | RCI | Analytical Method: | SW-846 Ch. 7.1 | Prep Method: | N/A |
| Analysis: | RCI | Analytical Method: | ASTM D 5049-90/4978-95 | Prep Method: | N/A |

| Parameter | Flag | RL 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 | 2 | 7.00 | s.u. | 1 | 0.00 |
| Ignitability | | non-ignitable | | 1 | 0.00 |

Sample: 83011 - W. Berm

| | | | | | |
|-------------|-------|---------------------|------------------------|--------------|-----|
| Analysis: | RCI | Analytical Method: | S 1110 | Prep Method: | N/A |
| QC Batch: | 24682 | Date Analyzed: | 2006-02-17 | Analyzed By: | SD |
| Prep Batch: | 21688 | Sample Preparation: | 2006-02-16 | Prepared By: | SD |
| Analysis: | RCI | Analytical Method: | SW-846 Ch. 7.1 | Prep Method: | N/A |
| Analysis: | RCI | Analytical Method: | ASTM D 5049-90/4978-95 | Prep Method: | N/A |

| Parameter | Flag | RL 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 |

continued...

¹ph taken by ph paper due to sample conditions •

²ph taken by ph paper due to sample conditions •

sample 83011 continued...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|---------------|-------|----------|------|
| pH | 3 | 7.00 | s.u. | 1 | 0.00 |
| Ignitability | | non-ignitable | | 1 | 0.00 |

Sample: 83012 - N. Berm

| | | |
|-------------------|---|------------------|
| Analysis: RCI | Analytical Method: S 1110 | Prep Method: N/A |
| QC Batch: 24682 | Date Analyzed: 2006-02-17 | Analyzed By: SD |
| Prep Batch: 21688 | Sample Preparation: 2006-02-16 | Prepared By: SD |
| Analysis: RCI | Analytical Method: SW-846 Ch. 7.1 | Prep Method: N/A |
| Analysis: RCI | Analytical Method: ASTM D 5049-90/4978-95 | Prep Method: N/A |

| Parameter | Flag | RL 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 | 4 | 7.00 | s.u. | 1 | 0.00 |
| Ignitability | | non-ignitable | | 1 | 0.00 |

Sample: 83013 - N Bottom

| | | |
|-------------------|---|------------------|
| Analysis: RCI | Analytical Method: S 1110 | Prep Method: N/A |
| QC Batch: 24682 | Date Analyzed: 2006-02-17 | Analyzed By: SD |
| Prep Batch: 21688 | Sample Preparation: 2006-02-16 | Prepared By: SD |
| Analysis: RCI | Analytical Method: SW-846 Ch. 7.1 | Prep Method: N/A |
| Analysis: RCI | Analytical Method: ASTM D 5049-90/4978-95 | Prep Method: N/A |

| Parameter | Flag | RL 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 | 5 | 7.00 | s.u. | 1 | 0.00 |
| Ignitability | | non-ignitable | | 1 | 0.00 |

Sample: 83014 - S. Bottom

| | | |
|-------------------|---|------------------|
| Analysis: RCI | Analytical Method: S 1110 | Prep Method: N/A |
| QC Batch: 24682 | Date Analyzed: 2006-02-17 | Analyzed By: SD |
| Prep Batch: 21688 | Sample Preparation: 2006-02-16 | Prepared By: SD |
| Analysis: RCI | Analytical Method: SW-846 Ch. 7.1 | Prep Method: N/A |
| Analysis: RCI | Analytical Method: ASTM D 5049-90/4978-95 | Prep Method: N/A |

³ph taken by ph paper due to sample conditions •

⁴ph taken by ph paper due to sample conditions •

⁵ph taken by ph paper due to sample conditions •

| Parameter | Flag | RL 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 | 7.00 | s.u. | 1 | 0.00 |
| Ignitability | | non-ignitable | | 1 | 0.00 |

Duplicate (1) QC Batch: 24682

| 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 | 0 |
| pH | 7 | 7.00 | s.u. | 1 | 0 | 0 |
| Ignitability | non-ignitable | non-ignitable | | 1 | 0 | 20 |

⁶ph taken by ph paper due to sample conditions •

⁷ph taken by ph paper due to sample conditions •

Page 1 of 1

| <p>TraceAnalysis, Inc. 155 McCutcheon, Suite H El Paso, Texas 79932 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443 email: lab@traceanalysis.com</p> <p>Company Name: CRA Phone #: (432) 686-0080 Address: (Street, City, Zip) Fax #: e-mail: ephilley@CRAworld.com Contact Person: Edward (Ted) Philley Invoice to: (If different from above) Project #: 043995 Project Name: Duke - Artesia Flare Pit Project Location: Eddy County, NM Sampler Signature: <i>[Signature]</i></p> | | <p>CHAIN-OF-CUSTODY AND ANALYSIS REQUEST LAB Order ID # 6012505</p> <p>ANALYSIS REQUEST (Circle or Specify Method No.)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>MTBE 80218/602</td> <td>✓</td> <td>TX 1005 Extended (C35)</td> <td>✓</td> <td>PAH 8270C</td> <td>✓</td> <td>TCLP Metals Ag As Ba Cd Cr Pb Se Hg</td> <td>✓</td> <td>TCLP Volatiles</td> <td>✓</td> <td>TCLP Pesticides</td> <td>✓</td> <td>RCI</td> <td>✓</td> <td>GC/MS Vol. 8260B/624</td> <td>✓</td> <td>GC/MS Semi. Vol. 8270C/625</td> <td>✓</td> <td>PCBs 8082/608</td> <td>✓</td> <td>Pesticides 8081A/608</td> <td>✓</td> <td>BOD, TSS, pH</td> <td>✓</td> <td>Moisture Content</td> <td>✓</td> <td>Turn Around Time if different from standard</td> <td>✓</td> </tr> </table> | | MTBE 80218/602 | ✓ | TX 1005 Extended (C35) | ✓ | PAH 8270C | ✓ | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | ✓ | TCLP Volatiles | ✓ | TCLP Pesticides | ✓ | RCI | ✓ | GC/MS Vol. 8260B/624 | ✓ | GC/MS Semi. Vol. 8270C/625 | ✓ | PCBs 8082/608 | ✓ | Pesticides 8081A/608 | ✓ | BOD, TSS, pH | ✓ | Moisture Content | ✓ | Turn Around Time if different from standard | ✓ | <p>LAB USE ONLY</p> <p>Intact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Headspace <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Temp <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Log-in Review <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p> <p>Carrier # 1827749</p> | | <p>REMARKS:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------|---|------------|----------------|---------------|-------------------------------------|---------------|----------------|---------------------|-------------------------------------|---------------------|----------------|------|----------------------|------|----------------------------|------|----------------------|--------|----------------------------|------------------|--------------------------------|------|----------------------|------|---|------|------------------|---------|---|-----|---|--|------------------------|--|--|--|--|--|--|------|-------|----|---------|---|-----|---|--|--|--|--|--|--|--|--|------|-------|----|---------|---|-----|---|--|--|--|--|--|--|--|--|------|-------|----|---------|---|-----|---|--|--|--|--|--|--|--|--|------|-------|----|-----------|---|-----|---|--|--|--|--|--|--|--|--|------|-------|----|-----------|---|-----|---|--|--|--|--|--|--|--|--|------|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| MTBE 80218/602 | ✓ | TX 1005 Extended (C35) | ✓ | PAH 8270C | ✓ | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | ✓ | TCLP Volatiles | ✓ | TCLP Pesticides | ✓ | RCI | ✓ | GC/MS Vol. 8260B/624 | ✓ | GC/MS Semi. Vol. 8270C/625 | ✓ | PCBs 8082/608 | ✓ | Pesticides 8081A/608 | ✓ | BOD, TSS, pH | ✓ | Moisture Content | ✓ | Turn Around Time if different from standard | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">LAB # (LAB USE ONLY)</th> <th rowspan="2">FIELD CODE</th> <th rowspan="2"># CONTAINERS</th> <th rowspan="2">Volume/Amount</th> <th colspan="3">MATRIX</th> <th colspan="5">PRESERVATIVE METHOD</th> <th colspan="2">SAMPLING</th> </tr> <tr> <th>WATER</th> <th>SOIL</th> <th>AIR</th> <th>SLUDGE</th> <th>HCl</th> <th>HNO₃</th> <th>H₂SO₄</th> <th>NaOH</th> <th>ICE</th> <th>NONE</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>83009</td> <td>E. Bern</td> <td>1</td> <td>4oz</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/23</td> <td>12:50</td> </tr> <tr> <td>10</td> <td>S. Bern</td> <td>1</td> <td>4oz</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/23</td> <td>12:57</td> </tr> <tr> <td>11</td> <td>W. Bern</td> <td>1</td> <td>4oz</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/23</td> <td>13:05</td> </tr> <tr> <td>12</td> <td>N. Bern</td> <td>1</td> <td>4oz</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/23</td> <td>13:13</td> </tr> <tr> <td>13</td> <td>N. Bottom</td> <td>1</td> <td>4oz</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/23</td> <td>13:25</td> </tr> <tr> <td>14</td> <td>S. Bottom</td> <td>1</td> <td>4oz</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/23</td> <td>13:33</td> </tr> </tbody> </table> | | LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX | | | PRESERVATIVE METHOD | | | | | SAMPLING | | WATER | SOIL | AIR | SLUDGE | HCl | HNO ₃ | H ₂ SO ₄ | NaOH | ICE | NONE | DATE | TIME | 83009 | E. Bern | 1 | 4oz | ✓ | | | | | | | | | 1/23 | 12:50 | 10 | S. Bern | 1 | 4oz | ✓ | | | | | | | | | 1/23 | 12:57 | 11 | W. Bern | 1 | 4oz | ✓ | | | | | | | | | 1/23 | 13:05 | 12 | N. Bern | 1 | 4oz | ✓ | | | | | | | | | 1/23 | 13:13 | 13 | N. Bottom | 1 | 4oz | ✓ | | | | | | | | | 1/23 | 13:25 | 14 | S. Bottom | 1 | 4oz | ✓ | | | | | | | | | 1/23 | 13:33 | <p>Relinquished by: Edward Philley Date: 1-24-06 Time: 1445</p> <p>Relinquished by: Edward Philley Date: 1-24-06 Time: 1445</p> <p>Relinquished by: Edward Philley Date: 1-24-06 Time: 1445</p> | | <p>Received by: Edward Philley Date: 1-24-06 Time: 1445</p> <p>Received by: Edward Philley Date: 1-24-06 Time: 1445</p> <p>Received by: Edward Philley Date: 1-24-06 Time: 1445</p> | | <p>Relinquished by: Edward Philley Date: 1-24-06 Time: 1445</p> <p>Relinquished by: Edward Philley Date: 1-24-06 Time: 1445</p> <p>Relinquished by: Edward Philley Date: 1-24-06 Time: 1445</p> | | <p>Received by: Edward Philley Date: 1-24-06 Time: 1445</p> <p>Received by: Edward Philley Date: 1-24-06 Time: 1445</p> <p>Received by: Edward Philley Date: 1-24-06 Time: 1445</p> | | <p>Relinquished by: Edward Philley Date: 1-24-06 Time: 1445</p> <p>Relinquished by: Edward Philley Date: 1-24-06 Time: 1445</p> <p>Relinquished by: Edward Philley Date: 1-24-06 Time: 1445</p> | | <p>Received by: Edward Philley Date: 1-24-06 Time: 1445</p> <p>Received by: Edward Philley Date: 1-24-06 Time: 1445</p> <p>Received by: Edward Philley Date: 1-24-06 Time: 1445</p> | |
| LAB # (LAB USE ONLY) | FIELD CODE | | | | | # CONTAINERS | Volume/Amount | MATRIX | | | PRESERVATIVE METHOD | | | | | SAMPLING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | WATER | SOIL | AIR | SLUDGE | | | HCl | HNO ₃ | H ₂ SO ₄ | NaOH | ICE | NONE | DATE | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 83009 | E. Bern | 1 | 4oz | ✓ | | | | | | | | | 1/23 | 12:50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | S. Bern | 1 | 4oz | ✓ | | | | | | | | | 1/23 | 12:57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | W. Bern | 1 | 4oz | ✓ | | | | | | | | | 1/23 | 13:05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | N. Bern | 1 | 4oz | ✓ | | | | | | | | | 1/23 | 13:13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | N. Bottom | 1 | 4oz | ✓ | | | | | | | | | 1/23 | 13:25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | S. Bottom | 1 | 4oz | ✓ | | | | | | | | | 1/23 | 13:33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ORIGINAL COPY

Report Date: September 7, 2006
043995

Work Order: 6090504
Duke Artesia Flair Pit

Page Number: 1 of 1
Eddy County, NM

Summary Report

Todd Wells
CRA-Midland
2135 South Loop 250 West
Midland, TX, 79703

Report Date: September 7, 2006

Work Order: 6090504



Project Location: Eddy County, NM
Project Name: Duke Artesia Flair Pit
Project Number: 043995

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|----------------------------|--------|------------|------------|---------------|
| 101979 | 2' S. of N. Berm (Bottom) | soil | 2006-09-01 | 12:08 | 2006-09-05 |
| 101980 | 10' S. of N. Berm (Bottom) | soil | 2006-09-01 | 12:16 | 2006-09-05 |
| 101981 | S. Wall | soil | 2006-09-01 | 12:25 | 2006-09-05 |
| 101982 | E. Wall | soil | 2006-09-01 | 12:31 | 2006-09-05 |
| 101983 | W. Wall | soil | 2006-09-01 | 12:35 | 2006-09-05 |
| 101984 | N. Wall | soil | 2006-09-01 | 12:40 | 2006-09-05 |

| Sample - Field Code | BTEX | | | | MTBE | TPH DRO | TPH GRO |
|-------------------------------------|--------------------|--------------------|-------------------------|-------------------|-----------------|----------------|----------------|
| | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethylbenzene (mg/Kg) | Xylene (mg/Kg) | MTBE (mg/Kg) | DRO (mg/Kg) | GRO (mg/Kg) |
| 101979 - 2' S. of N. Berm (Bottom) | <0.0100 | 0.0268 | 0.0110 | 0.0499 | | <50.0 | <1.00 |
| 101980 - 10' S. of N. Berm (Bottom) | <0.0100 | 0.0192 | <0.0100 | 0.0263 | | <50.0 | <1.00 |
| 101981 - S. Wall | <0.0100 | 0.0177 | <0.0100 | 0.0235 | | <50.0 | <1.00 |
| 101982 - E. Wall | <0.0100 | 0.0183 | <0.0100 | 0.0245 | | <50.0 | <1.00 |
| 101983 - W. Wall | <0.0100 | 0.0186 | <0.0100 | 0.0220 | | <50.0 | <1.00 |
| 101984 - N. Wall | <0.0100 | 0.0177 | <0.0100 | 0.0214 | | <50.0 | <1.00 |

Analytical and Quality Control Report

Todd Wells
CRA-Midland
2135 South Loop 250 West
Midland, TX, 79703

Report Date: September 7, 2006

Work Order: 6090504



Project Location: Eddy County, NM
Project Name: Duke Artesia Flair Pit
Project Number: 043995

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 |
|--------|----------------------------|--------|------------|------------|---------------|
| 101979 | 2' S. of N. Berm (Bottom) | soil | 2006-09-01 | 12:08 | 2006-09-05 |
| 101980 | 10' S. of N. Berm (Bottom) | soil | 2006-09-01 | 12:16 | 2006-09-05 |
| 101981 | S. Wall | soil | 2006-09-01 | 12:25 | 2006-09-05 |
| 101982 | E. Wall | soil | 2006-09-01 | 12:31 | 2006-09-05 |
| 101983 | W. Wall | soil | 2006-09-01 | 12:35 | 2006-09-05 |
| 101984 | N. Wall | soil | 2006-09-01 | 12:40 | 2006-09-05 |

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 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 101979 - 2' S. of N. Berm (Bottom)

Analysis: BTEX
QC Batch: 29719
Prep Batch: 25912

Analytical Method: S 8021B
Date Analyzed: 2006-09-06
Sample Preparation: 2006-09-05

Prep Method: S 5035
Analyzed By: LO
Prepared By: LO

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|--------|
| Benzene | | <0.0100 | mg/Kg | 1 | 0.0100 |
| Toluene | | 0.0268 | mg/Kg | 1 | 0.0100 |
| Ethylbenzene | | 0.0110 | mg/Kg | 1 | 0.0100 |
| Xylene | | 0.0499 | mg/Kg | 1 | 0.0100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.792 | mg/Kg | 1 | 1.00 | 79 | 75 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 0.923 | mg/Kg | 1 | 1.00 | 92 | 75 - 125 |

Sample: 101979 - 2' S. of N. Berm (Bottom)

Analysis: TPH DRO
QC Batch: 29717
Prep Batch: 25911

Analytical Method: Mod. 8015B
Date Analyzed: 2006-09-05
Sample Preparation: 2006-09-05

Prep Method: N/A
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | 1 | 220 | mg/Kg | 1 | 150 | 147 | 70 - 130 |

Sample: 101979 - 2' S. of N. Berm (Bottom)

Analysis: TPH GRO
QC Batch: 29722
Prep Batch: 25912

Analytical Method: S 8015B
Date Analyzed: 2006-09-05
Sample Preparation: 2006-09-05

Prep Method: S 5035
Analyzed By: LO
Prepared By: LO

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| GRO | | <1.00 | mg/Kg | 1 | 1.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.695 | mg/Kg | 1 | 1.00 | 70 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 1.27 | mg/Kg | 1 | 1.00 | 127 | 70 - 130 |

¹ High surrogate recovery. Sample non-detect, result bias high.

Sample: 101980 - 10' S. of N. Berm (Bottom)

| | | |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5035 |
| QC Batch: 29719 | Date Analyzed: 2006-09-06 | Analyzed By: LO |
| Prep Batch: 25912 | Sample Preparation: 2006-09-05 | Prepared By: LO |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|---------------|-------|----------|--------|
| Benzene | | <0.0100 | mg/Kg | 1 | 0.0100 |
| Toluene | | 0.0192 | mg/Kg | 1 | 0.0100 |
| Ethylbenzene | | <0.0100 | mg/Kg | 1 | 0.0100 |
| Xylene | | 0.0263 | mg/Kg | 1 | 0.0100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.828 | mg/Kg | 1 | 1.00 | 83 | 75 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 0.886 | mg/Kg | 1 | 1.00 | 89 | 75 - 125 |

Sample: 101980 - 10' S. of N. Berm (Bottom)

| | | |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B | Prep Method: N/A |
| QC Batch: 29717 | Date Analyzed: 2006-09-05 | Analyzed By: AG |
| Prep Batch: 25911 | Sample Preparation: 2006-09-05 | Prepared By: AG |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | ² | 234 | mg/Kg | 1 | 150 | 156 | 70 - 130 |

Sample: 101980 - 10' S. of N. Berm (Bottom)

| | | |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B | Prep Method: S 5035 |
| QC Batch: 29722 | Date Analyzed: 2006-09-05 | Analyzed By: LO |
| Prep Batch: 25912 | Sample Preparation: 2006-09-05 | Prepared By: LO |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| GRO | | <1.00 | mg/Kg | 1 | 1.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | ³ | 0.690 | mg/Kg | 1 | 1.00 | 69 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 1.22 | mg/Kg | 1 | 1.00 | 122 | 70 - 130 |

²High surrogate recovery. Sample non-detect, result bias high.

³Surrogate out due to peak interference.

Sample: 101981 - S. Wall

Analysis: BTEX
QC Batch: 29719
Prep Batch: 25912

Analytical Method: S 8021B
Date Analyzed: 2006-09-06
Sample Preparation: 2006-09-05

Prep Method: S 5035
Analyzed By: LO
Prepared By: LO

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|--------|
| Benzene | | <0.0100 | mg/Kg | 1 | 0.0100 |
| Toluene | | 0.0177 | mg/Kg | 1 | 0.0100 |
| Ethylbenzene | | <0.0100 | mg/Kg | 1 | 0.0100 |
| Xylene | | 0.0235 | mg/Kg | 1 | 0.0100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.786 | mg/Kg | 1 | 1.00 | 79 | 75 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 0.883 | mg/Kg | 1 | 1.00 | 88 | 75 - 125 |

Sample: 101981 - S. Wall

Analysis: TPH DRO
QC Batch: 29717
Prep Batch: 25911

Analytical Method: Mod. 8015B
Date Analyzed: 2006-09-05
Sample Preparation: 2006-09-05

Prep Method: N/A
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | ⁴ | 236 | mg/Kg | 1 | 150 | 157 | 70 - 130 |

Sample: 101981 - S. Wall

Analysis: TPH GRO
QC Batch: 29722
Prep Batch: 25912

Analytical Method: S 8015B
Date Analyzed: 2006-09-05
Sample Preparation: 2006-09-05

Prep Method: S 5035
Analyzed By: LO
Prepared By: LO

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| GRO | | <1.00 | mg/Kg | 1 | 1.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.665 | mg/Kg | 1 | 1.00 | 66 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 1.21 | mg/Kg | 1 | 1.00 | 121 | 70 - 130 |

⁴High surrogate recovery. Sample non-detect, result bias high.

Sample: 101982 - E. Wall

Analysis: BTEX
QC Batch: 29719
Prep Batch: 25912

Analytical Method: S 8021B
Date Analyzed: 2006-09-06
Sample Preparation: 2006-09-05

Prep Method: S 5035
Analyzed By: LO
Prepared By: LO

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|--------|
| Benzene | | <0.0100 | mg/Kg | 1 | 0.0100 |
| Toluene | | 0.0183 | mg/Kg | 1 | 0.0100 |
| Ethylbenzene | | <0.0100 | mg/Kg | 1 | 0.0100 |
| Xylene | | 0.0245 | mg/Kg | 1 | 0.0100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.786 | mg/Kg | 1 | 1.00 | 79 | 75 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 0.883 | mg/Kg | 1 | 1.00 | 88 | 75 - 125 |

Sample: 101982 - E. Wall

Analysis: TPH DRO
QC Batch: 29717
Prep Batch: 25911

Analytical Method: Mod. 8015B
Date Analyzed: 2006-09-05
Sample Preparation: 2006-09-05

Prep Method: N/A
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | ⁵ | 227 | mg/Kg | 1 | 150 | 151 | 70 - 130 |

Sample: 101982 - E. Wall

Analysis: TPH GRO
QC Batch: 29722
Prep Batch: 25912

Analytical Method: S 8015B
Date Analyzed: 2006-09-05
Sample Preparation: 2006-09-05

Prep Method: S 5035
Analyzed By: LO
Prepared By: LO

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| GRO | | <1.00 | mg/Kg | 1 | 1.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.773 | mg/Kg | 1 | 1.00 | 77 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 1.21 | mg/Kg | 1 | 1.00 | 121 | 70 - 130 |

⁵High surrogate recovery. Sample non-detect, result bias high.

Sample: 101983 - W. Wall

| | | |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5035 |
| QC Batch: 29719 | Date Analyzed: 2006-09-06 | Analyzed By: LO |
| Prep Batch: 25912 | Sample Preparation: 2006-09-05 | Prepared By: LO |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|---------------|-------|----------|--------|
| Benzene | | <0.0100 | mg/Kg | 1 | 0.0100 |
| Toluene | | 0.0186 | mg/Kg | 1 | 0.0100 |
| Ethylbenzene | | <0.0100 | mg/Kg | 1 | 0.0100 |
| Xylene | | 0.0220 | mg/Kg | 1 | 0.0100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.782 | mg/Kg | 1 | 1.00 | 78 | 75 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 0.870 | mg/Kg | 1 | 1.00 | 87 | 75 - 125 |

Sample: 101983 - W. Wall

| | | |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B | Prep Method: N/A |
| QC Batch: 29717 | Date Analyzed: 2006-09-05 | Analyzed By: AG |
| Prep Batch: 25911 | Sample Preparation: 2006-09-05 | Prepared By: AG |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | ⁶ | 231 | mg/Kg | 1 | 150 | 154 | 70 - 130 |

Sample: 101983 - W. Wall

| | | |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B | Prep Method: S 5035 |
| QC Batch: 29722 | Date Analyzed: 2006-09-05 | Analyzed By: LO |
| Prep Batch: 25912 | Sample Preparation: 2006-09-05 | Prepared By: LO |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| GRO | | <1.00 | mg/Kg | 1 | 1.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.721 | mg/Kg | 1 | 1.00 | 72 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 1.20 | mg/Kg | 1 | 1.00 | 120 | 70 - 130 |

⁶High surrogate recovery. Sample non-detect, result bias high.

Sample: 101984 - N. Wall

| | | |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5035 |
| QC Batch: 29719 | Date Analyzed: 2006-09-06 | Analyzed By: LO |
| Prep Batch: 25912 | Sample Preparation: 2006-09-05 | Prepared By: LO |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|---------------|-------|----------|--------|
| Benzene | | <0.0100 | mg/Kg | 1 | 0.0100 |
| Toluene | | 0.0177 | mg/Kg | 1 | 0.0100 |
| Ethylbenzene | | <0.0100 | mg/Kg | 1 | 0.0100 |
| Xylene | | 0.0214 | mg/Kg | 1 | 0.0100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.782 | mg/Kg | 1 | 1.00 | 78 | 75 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 0.878 | mg/Kg | 1 | 1.00 | 88 | 75 - 125 |

Sample: 101984 - N. Wall

| | | |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B | Prep Method: N/A |
| QC Batch: 29717 | Date Analyzed: 2006-09-05 | Analyzed By: AG |
| Prep Batch: 25911 | Sample Preparation: 2006-09-05 | Prepared By: AG |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | ⁷ | 226 | mg/Kg | 1 | 150 | 151 | 70 - 130 |

Sample: 101984 - N. Wall

| | | |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B | Prep Method: S 5035 |
| QC Batch: 29722 | Date Analyzed: 2006-09-05 | Analyzed By: LO |
| Prep Batch: 25912 | Sample Preparation: 2006-09-05 | Prepared By: LO |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| GRO | | <1.00 | mg/Kg | 1 | 1.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.744 | mg/Kg | 1 | 1.00 | 74 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 1.21 | mg/Kg | 1 | 1.00 | 121 | 70 - 130 |

⁷High surrogate recovery. Sample non-detect, result bias high.

Method Blank (1) QC Batch: 29717

QC Batch: 29717
Prep Batch: 25911

Date Analyzed: 2006-09-05
QC Preparation: 2006-09-05

Analyzed By: AG
Prepared By: AG

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|----|
| DRO | | 43.0 | mg/Kg | 50 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | | 142 | mg/Kg | 1 | 150 | 95 | 70 - 130 |

Method Blank (1) QC Batch: 29719

QC Batch: 29719
Prep Batch: 25912

Date Analyzed: 2006-09-06
QC Preparation: 2006-09-05

Analyzed By: LO
Prepared By: LO

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|------|
| Benzene | | <0.00270 | mg/Kg | 0.01 |
| Toluene | | <0.00320 | mg/Kg | 0.01 |
| Ethylbenzene | | <0.00340 | mg/Kg | 0.01 |
| Xylene | | 0.0190 | mg/Kg | 0.01 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.806 | mg/Kg | 1 | 1.00 | 81 | 75 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 0.811 | mg/Kg | 1 | 1.00 | 81 | 75 - 125 |

Method Blank (1) QC Batch: 29722

QC Batch: 29722
Prep Batch: 25912

Date Analyzed: 2006-09-05
QC Preparation: 2006-09-05

Analyzed By: LO
Prepared By: LO

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|----|
| GRO | | 2.76 | mg/Kg | 1 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.968 | mg/Kg | 1 | 1.00 | 97 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 1.11 | mg/Kg | 1 | 1.00 | 111 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 29717
Prep Batch: 25911

Date Analyzed: 2006-09-05
QC Preparation: 2006-09-05

Analyzed By: AG
Prepared By: AG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO | 242 | mg/Kg | 1 | 250 | <15.4 | 97 | 70 - 130 |

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

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | 227 | mg/Kg | 1 | 250 | <15.4 | 97 | 70 - 130 | 6 | 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 |
|---------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Triacontane | 121 | 118 | mg/Kg | 1 | 150 | 81 | 79 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 29719
Prep Batch: 25912

Date Analyzed: 2006-09-06
QC Preparation: 2006-09-05

Analyzed By: LO
Prepared By: LO

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | 0.974 | mg/Kg | 1 | 1.00 | <0.00270 | 97 | 70 - 130 |
| Toluene | 0.926 | mg/Kg | 1 | 1.00 | <0.00320 | 93 | 70 - 130 |
| Ethylbenzene | 0.910 | mg/Kg | 1 | 1.00 | <0.00340 | 91 | 70 - 130 |
| Xylene | 2.73 | mg/Kg | 1 | 3.00 | <0.0104 | 91 | 70 - 130 |

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

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | 0.965 | mg/Kg | 1 | 1.00 | <0.00270 | 97 | 70 - 130 | 1 | 20 |
| Toluene | 0.917 | mg/Kg | 1 | 1.00 | <0.00320 | 93 | 70 - 130 | 1 | 20 |
| Ethylbenzene | 0.902 | mg/Kg | 1 | 1.00 | <0.00340 | 91 | 70 - 130 | 1 | 20 |
| Xylene | 2.71 | mg/Kg | 1 | 3.00 | <0.0104 | 91 | 70 - 130 | 1 | 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 |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 0.810 | 0.809 | mg/Kg | 1 | 1.00 | 81 | 81 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.882 | 0.879 | mg/Kg | 1 | 1.00 | 88 | 88 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 29722
Prep Batch: 25912

Date Analyzed: 2006-09-05
QC Preparation: 2006-09-05

Analyzed By: LO
Prepared By: LO

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO | 8.28 | mg/Kg | 1 | 10.0 | <0.829 | 83 | 70 - 130 |

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

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | 7.82 | mg/Kg | 1 | 10.0 | <0.829 | 83 | 70 - 130 | 6 | 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 |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 1.18 | 1.13 | mg/Kg | 1 | 1.00 | 118 | 113 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 1.20 | 1.20 | mg/Kg | 1 | 1.00 | 120 | 120 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 101981

QC Batch: 29717
Prep Batch: 25911

Date Analyzed: 2006-09-05
QC Preparation: 2006-09-05

Analyzed By: AG
Prepared By: AG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|------------------|-------|------|-----------------|------------------|------|---------------|
| DRO | ⁸ 939 | mg/Kg | 1 | 250 | <15.4 | 376 | 70 - 130 |

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

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|------------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | ⁹ 531 | mg/Kg | 1 | 250 | <15.4 | 212 | 70 - 130 | 56 | 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 |
|---------------|----------------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| n-Triacontane | ^{10 11} 282 | 206 | mg/Kg | 1 | 150 | 188 | 137 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 101979

QC Batch: 29719
Prep Batch: 25912

Date Analyzed: 2006-09-06
QC Preparation: 2006-09-05

Analyzed By: LO
Prepared By: LO

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | 0.848 | mg/Kg | 1 | 1.00 | <0.00270 | 85 | 70 - 130 |
| Toluene | 0.819 | mg/Kg | 1 | 1.00 | 0.0268 | 79 | 70 - 130 |
| Ethylbenzene | 0.794 | mg/Kg | 1 | 1.00 | 0.011 | 78 | 70 - 130 |
| Xylene | 2.39 | mg/Kg | 1 | 3.00 | 0.0499 | 78 | 70 - 130 |

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

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | 0.769 | mg/Kg | 1 | 1.00 | <0.00270 | 77 | 70 - 130 | 10 | 20 |
| Toluene | 0.784 | mg/Kg | 1 | 1.00 | 0.0268 | 76 | 70 - 130 | 4 | 20 |

continued ...

⁸Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

¹⁰High surrogate recovery due to peak interference.

¹¹High surrogate recovery due to peak interference.

matrix spikes continued...

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Ethylbenzene | 0.776 | mg/Kg | 1 | 1.00 | 0.011 | 76 | 70 - 130 | 2 | 20 |
| Xylene | 2.34 | mg/Kg | 1 | 3.00 | 0.0499 | 76 | 70 - 130 | 2 | 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 |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT) | 0.948 | 0.800 | mg/Kg | 1 | 1 | 95 | 80 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.905 | 0.893 | mg/Kg | 1 | 1 | 90 | 89 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 101979

QC Batch: 29722
Prep Batch: 25912

Date Analyzed: 2006-09-05
QC Preparation: 2006-09-05

Analyzed By: LO
Prepared By: LO

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|--------------------|-------|------|--------------|---------------|------|------------|
| GRO | ¹² 6.76 | mg/Kg | 1 | 10.0 | <0.829 | 63 | 70 - 130 |

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

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|--------------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO | ¹³ 6.97 | mg/Kg | 1 | 10.0 | <0.829 | 65 | 70 - 130 | 3 | 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 |
|------------------------------|-----------------------------------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT) | ¹⁴ ¹⁵ 0.646 | 0.661 | mg/Kg | 1 | 1 | 65 | 66 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 1.24 | 1.26 | mg/Kg | 1 | 1 | 124 | 126 | 70 - 130 |

Standard (ICV-1)

QC Batch: 29717

Date Analyzed: 2006-09-05

Analyzed By: AG

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| DRO | | mg/Kg | 250 | 259 | 104 | 85 - 115 | 2006-09-05 |

Standard (CCV-1)

QC Batch: 29717

Date Analyzed: 2006-09-05

Analyzed By: AG

¹²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹⁴Surrogate out due to peak interference.

¹⁵Surrogate out due to peak interference.

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | mg/Kg | 250 | 218 | 87 | 85 - 115 | 2006-09-05 |

Standard (ICV-1)

QC Batch: 29719

Date Analyzed: 2006-09-06

Analyzed By: LO

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/Kg | 0.100 | 0.0943 | 94 | 85 - 115 | 2006-09-06 |
| Toluene | | mg/Kg | 0.100 | 0.0914 | 91 | 85 - 115 | 2006-09-06 |
| Ethylbenzene | | mg/Kg | 0.100 | 0.0899 | 90 | 85 - 115 | 2006-09-06 |
| Xylene | | mg/Kg | 0.300 | 0.271 | 90 | 85 - 115 | 2006-09-06 |

Standard (CCV-1)

QC Batch: 29719

Date Analyzed: 2006-09-06

Analyzed By: LO

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/Kg | 0.100 | 0.0963 | 96 | 85 - 115 | 2006-09-06 |
| Toluene | | mg/Kg | 0.100 | 0.0905 | 90 | 85 - 115 | 2006-09-06 |
| Ethylbenzene | | mg/Kg | 0.100 | 0.0847 | 85 | 85 - 115 | 2006-09-06 |
| Xylene | | mg/Kg | 0.300 | 0.260 | 87 | 85 - 115 | 2006-09-06 |

Standard (ICV-1)

QC Batch: 29722

Date Analyzed: 2006-09-05

Analyzed By: LO

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | mg/Kg | 1.00 | 1.04 | 104 | 85 - 115 | 2006-09-05 |

Standard (CCV-1)

QC Batch: 29722

Date Analyzed: 2006-09-05

Analyzed By: LO

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | mg/Kg | 1.00 | 1.07 | 107 | 85 - 115 | 2006-09-05 |

Page 1 of 1

| <p>TraceAnalysis, Inc. 6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424 Tel (806) 794-1266 Fax (806) 794-1266 1 (800) 378-1296 email: lab@traceanalysis.com</p> <p>Company Name: CRA Address: (Street, City, Zip) 2135 S Loop 250 West Contact Person: Todd Wells Phone #: 686-0086 Fax #: e-mail: 686-0186</p> | | <p>CHAIN-OF-CUSTODY AND ANALYSIS REQUEST LAB Order ID # 6090504</p> <p>ANALYSIS REQUEST (Circle or Specify Method No.)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>TX 1005 Extended (C35)</td><td></td></tr> <tr><td>TPH 418.1/TX1005</td><td></td></tr> <tr><td>BTX 8021B/602</td><td></td></tr> <tr><td>MTBE 8021B/602</td><td></td></tr> <tr><td>PAH 8270C</td><td></td></tr> <tr><td>Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7</td><td></td></tr> <tr><td>TCLP Volatiles</td><td></td></tr> <tr><td>TCLP Semi Volatiles</td><td></td></tr> <tr><td>TCLP Pesticides</td><td></td></tr> <tr><td>RCI</td><td></td></tr> <tr><td>GC/MS Vol. 8260B/624</td><td></td></tr> <tr><td>GC/MS Semi. Vol. 8270C/625</td><td></td></tr> <tr><td>PCB's 8082/608</td><td></td></tr> <tr><td>Pesticides 8081A/608</td><td></td></tr> <tr><td>BOD, TSS, pH</td><td></td></tr> <tr><td>Moisture Content</td><td></td></tr> <tr><td>Turn Around Time if different from standard</td><td></td></tr> </table> | | TX 1005 Extended (C35) | | TPH 418.1/TX1005 | | BTX 8021B/602 | | MTBE 8021B/602 | | PAH 8270C | | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | | 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 | | Moisture Content | | Turn Around Time if different from standard | | <p>REMARKS: As soon as possible</p> <p>LAB USE ONLY</p> <p>Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Temp: 4 Log-in Review: 20</p> <p>Carrier # CARRY IN</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|--|---------------|-------------------------|------------|------------------|---------------|---------------|------------------|--------------------------------|---------------------|-----------|------|--|-------|----------------|--|---------------------|------|-----------------|--------|-----|------------------|--------------------------------|------|----------------------------|------|----------------|------|----------------------|------------------------|--------------|-----|------------------|--|---|--|---|--|--|--|--|--|---------|-------|------|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|-------|--|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|-------|--|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|-------|--|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|-------|--|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|-------|--|
| TX 1005 Extended (C35) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TPH 418.1/TX1005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BTX 8021B/602 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MTBE 8021B/602 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PAH 8270C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moisture Content | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turn Around Time if different from standard | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Project Name: Duke Artesia Flair Pit Sampler Signature: [Signature] Project #: 043995 Project Location: Eddy County, NM</p> | | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">LAB # (LAB USE ONLY)</th> <th rowspan="2">FIELD CODE</th> <th rowspan="2"># CONTAINERS</th> <th rowspan="2">Volume/Amount</th> <th colspan="3">MATRIX</th> <th colspan="5">PRESERVATIVE METHOD</th> <th colspan="2">SAMPLING</th> </tr> <tr> <th>WATER</th> <th>SOIL</th> <th>AIR</th> <th>SLUDGE</th> <th>HCl</th> <th>HNO₃</th> <th>H₂SO₄</th> <th>NaOH</th> <th>ICE</th> <th>NONE</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>0939</td> <td>2'S. of N. Perm. Crat.</td> <td>1</td> <td>4oz</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9/10/06</td> <td>12:08</td> </tr> <tr> <td>8010</td> <td>S. of N. Perm. Crat.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12:16</td> <td></td> </tr> <tr> <td>81</td> <td>S. Wall</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12:25</td> <td></td> </tr> <tr> <td>82</td> <td>E. Wall</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12:31</td> <td></td> </tr> <tr> <td>83</td> <td>W. Wall</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12:35</td> <td></td> </tr> <tr> <td>84</td> <td>N. Wall</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12:40</td> <td></td> </tr> </tbody> </table> | | LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX | | | PRESERVATIVE METHOD | | | | | SAMPLING | | WATER | SOIL | AIR | SLUDGE | HCl | HNO ₃ | H ₂ SO ₄ | NaOH | ICE | NONE | DATE | TIME | 0939 | 2'S. of N. Perm. Crat. | 1 | 4oz | X | | | | | | | | | | 9/10/06 | 12:08 | 8010 | S. of N. Perm. Crat. | | | | | | | | | | | | | 12:16 | | 81 | S. Wall | | | | | | | | | | | | | 12:25 | | 82 | E. Wall | | | | | | | | | | | | | 12:31 | | 83 | W. Wall | | | | | | | | | | | | | 12:35 | | 84 | N. Wall | | | | | | | | | | | | | 12:40 | |
| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | | | | | MATRIX | | | PRESERVATIVE METHOD | | | | | SAMPLING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | WATER | SOIL | AIR | SLUDGE | HCl | HNO ₃ | H ₂ SO ₄ | NaOH | ICE | NONE | DATE | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0939 | 2'S. of N. Perm. Crat. | 1 | 4oz | X | | | | | | | | | | 9/10/06 | 12:08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8010 | S. of N. Perm. Crat. | | | | | | | | | | | | | 12:16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | S. Wall | | | | | | | | | | | | | 12:25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 82 | E. Wall | | | | | | | | | | | | | 12:31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 83 | W. Wall | | | | | | | | | | | | | 12:35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | N. Wall | | | | | | | | | | | | | 12:40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Relinquished by: Todd Wells Date: 9/5/06 Time: 8:35</p> | | <p>Received by: Date: Time:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Relinquished by: Date: Time:</p> | | <p>Received by: Date: Time:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Relinquished by: Date: Time:</p> | | <p>Received by: Date: Time:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.</p> <p>ORIGINAL COPY</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

APPENDIX B

ARTESIA AERATION LLC PERMIT



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

November 29, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. P-326-936-642

Mr. Rob Mathews
Artesia Aeration L.L.C.
P.O. Box 248
Artesia, NM 88210

RE: OCD Rule 711 Permit Approval NM-01-0030
Artesia Aeration L.L.C.
Commercial Landfarm
N/2 of Section 7, Township 17 South, Range 32 East, NMPM, Lea County, New Mexico

Dear Mr. Mathews:

The permit application for the Artesia Aeration L.L.C. (Artesia Aeration) commercial surface waste management facility located in the N/2 N/2 of Section 9 and the N/2 N/2 of Section 10, Township 20 South, Range 38 East, NMPM, Lea County, New Mexico, is hereby approved in accordance with New Mexico Oil Conservation Division (OCD) Rule 711 under the conditions contained in the enclosed attachment. **This permit approval is conditional upon the receipt and approval by the Director of financial assurance in the amount of \$93,420.** According to the schedule outlined in the financial assurance section of the enclosed attachment, \$25,000 is required within thirty (30) days of the date of this permit approval letter. The application consists of the permit application Form C-137 dated June 29, 1999, the public notice dated October 11, 1999, and supplemental materials dated July 15, 1999.

The operation, monitoring and reporting shall be as specified in the enclosed attachment. All modifications and alternatives to the approved landfarming methods must receive prior OCD approval. Artesia Aeration is required to notify the Director of any facility expansion or process modification and to file the appropriate materials with the Division.

Please be advised approval of this facility permit does not relieve Artesia Aeration of liability should your operation result in pollution of surface water, ground water, or the environment. In addition, OCD approval does not relieve Artesia Aeration of responsibility for compliance with other federal, state or local laws and/or regulations.

APPENDIX C

FORM C-138 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
CERTIFICATE OF WASTE STATUS
NON-HAZARDOUS WASTE MANIFESTS

1234 N. Main St., Hobbs, NM 88240
 1234 N. Main St., Hobbs, NM 88240
 1234 N. Main St., Hobbs, NM 88240
 1234 N. Main St., Hobbs, NM 88240
 1234 N. Main St., Hobbs, NM 88240

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 01, 2003

Submit Original
 Plus 1 Copy
 to Appropriate
 District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

| | |
|--|--|
| 1. RCRA Receipt: <input checked="" type="checkbox"/> Non-Receipt: <input checked="" type="checkbox"/> <input type="checkbox"/> Verbal Approval Receipt: <input type="checkbox"/> Yes <input type="checkbox"/> No | 4. Generator: <u>Nuke Energy</u> 5. Originating Site: <u>Nuke-Artesia Share P.t</u> |
| 2. Management Facility Description: <u>Artesia Detention</u> | 6. Transporter: |
| 3. Address of Facility Operator: <u>P.O. Box 810</u> <u>Hobbs, NM 88241</u> | 7. State: <u>NM</u> |
| 7. Location of Material (Street Address or GPS): <u>Maljamas, NM</u> | |
| 9. Comments: A. All requests for approval to accept off-site waste must be accompanied by a certification of waste from the Generator, one certificate per job. B. All requests for approval to accept on-site waste must be accompanied by necessary chemical analysis to PROVE the material is not hazardous and the Generator's certification of origin. No waste chemical hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those accepted for transport. | |

BRIEF DESCRIPTION OF MATERIAL:

Contaminated soil

Estimated Volume: 500 or Known Volume (to be entered by the operator at the end of the haul): 30 yds

SIGNATURE: Jim Wilson TITLE: Manager DATE: 4/28/06
 Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Jim Wilson TELEPHONE NO.: 392-9575

E-MAIL ADDRESS: _____

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____
 APPROVED BY: Ed Martin TITLE: ENVIRO ENGR DATE: 5-2-06

Billing

ARTESIA GAS PLANT

Billing

P.O. Box 1170

ARTESIA, N.M. 88211

3249 on ENU.

JIM
 631-304

06/01/2006 MON 18:31 [TX/RX NO 8298] 0002

Freddy Robinson
 Houston

CERTIFICATE OF WASTE STATUS

| | |
|---|---|
| <p>1. Generator Name and Address <i>Duke Energy Field Services</i> <i>1925 Illinois Camp Road</i> <i>Artesia, NM 88210</i></p> | <p>2. Destination Name: <i>Artesia Aeration L.L.C.</i> <i>Commercial Landfarm</i></p> |
| <p>3. Originating Site (name): <i>Artesia Gas Plant</i></p> | <p>Location of Waste (Street address &/or ULSTR): <i>Permit NM-01-0030 P.O. Box 310</i> <i>Maljamar, NM Hobbs, NM</i></p> |
| <p>4. Source and Description of Waste <i>Flair pit soil</i></p> | <p><i>N/2 of Section 7, Township 17 South,</i> <i>Range 32 East, NMMPM, Lea County,</i> <i>New Mexico</i></p> |

* *Lewis R. Dade* 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 box)

☐ 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): *Lewis R. Dade*

Title: *Lead Mechanic*

Date: *Sept 13 - 2006*

| NON-HAZARDOUS WASTE MANIFEST | | 1. Generator's US EPA ID No. | Manifest Doc. No. | 2. Page 1 of |
|--|--|----------------------------------|---|-----------------------------------|
| 3. Generator's Name and Mailing Address Duke Plant (ARTESIA GAS Plant) CCR 206 | | | No. 6901 | |
| 4. Generator's Phone (505) 677-5201 F249 | | | | |
| 5. Transporter 1 Company Name Jim Wilson Con. | | 6. US EPA ID Number | A. Transporter's Phone 392-9575 | |
| 7. Transporter 2 Company Name | | 8. US EPA ID Number | B. Transporter's Phone | |
| 9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM | | 10. US EPA ID Number | C. Facility's Phone | |
| 11. Waste Shipping Name and Description | | | 12. Containers No. Type | 13. Total Quantity |
| a. | | | | 10 yds. |
| b. | | | | |
| c. | | | | |
| d. | | | | |
| D. Additional Descriptions for Materials Listed Above | | | E. Handling Codes for Wastes Listed Above | |
| 15. Special Handling Instructions and Additional Information | | | | |
| 16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | |
| Printed/Typed Name Cathy Romero | | Signature Cathy Romero | | Month Day Year 09/13/06 |
| 17. Transporter 1 Acknowledgement of Receipt of Materials | | | | |
| Printed/Typed Name Cathy Romero | | Signature Cathy Romero | | Month Day Year 09/13/06 |
| 18. Transporter 2 Acknowledgement of Receipt of Materials | | | | |
| Printed/Typed Name | | Signature | | Month Day Year |
| 19. Discrepancy Indication Space | | | | |
| 20. Facility Owner or Operator: Certification of receipt of wasted material covered by this manifest except as noted in Item 10. | | | | |
| Printed/Typed Name Jim Wilson | | Signature Jim Wilson | | Month Day Year |

WHITE - ORIGINAL

| NON-HAZARDOUS WASTE MANIFEST | | 1. Generator's US EPA ID No. | Manifest Doc. No. | 2. Page 1 of |
|--|--|---|---|----------------------------------|
| 3. Generator's Name and Mailing Address Duke Plant (ARTESIA GAS PLANT @ CR206) | | No. 6902 | | |
| 4. Generator's Phone (505) 677-5201 | | F249 | | |
| 5. Transporter 1 Company Name Jim Wilson Co. | | 6. US EPA ID Number | A. Transporter's Phone 342-9575 | |
| 7. Transporter 2 Company Name | | 8. US EPA ID Number | B. Transporter's Phone | |
| 9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM | | 10. US EPA ID Number | C. Facility's Phone | |
| 11. Waste Shipping Name and Description | | 12. Containers No. Type | 13. Total Quantity | 14. Unit Wt/Vol |
| a. | | | | 10 yds. |
| b. | | | | |
| c. | | | | |
| d. | | | | |
| D. Additional Descriptions for Materials Listed Above | | E. Handling Codes for Wastes Listed Above | | |
| 15. Special Handling Instructions and Additional Information | | | | |
| 16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | |
| Printed/Typed Name DUKE Energy Field Services | | Signature <i>Kevin R. Dade</i> | | Month Day Year 9 15 06 |
| 17. Transporter 1 Acknowledgement of Receipt of Materials | | Signature <i>Samuel L. McElravy</i> | | Month Day Year 9 16 06 |
| 18. Transporter 2 Acknowledgement of Receipt of Materials | | Signature | | Month Day Year |
| 19. Discrepancy Indication Space | | | | |
| 20. Facility Owner or Operator: Certification of receipt of wasted material covered by this manifest except as noted in Item 19. | | | | |
| Printed/Typed Name Jim Wilson | | Signature <i>Jim Wilson</i> | | Month Day Year |

WHITE - ORIGINAL

| NON-HAZARDOUS WASTE MANIFEST | | 1. Generator's US EPA ID No. | Manifest Doc. No. | 2. Page 1 of |
|--|--|-------------------------------------|---|----------------------------------|
| 3. Generator's Name and Mailing Address Duke Plant ARTESIA Gas Plant @ CR 206 | | | No. 6903 | |
| 4. Generator's Phone (505) 677-5201 | | | F249 | |
| 5. Transporter 1 Company Name Jim Wilson Con. | | 6. US EPA ID Number | A. Transporter's Phone 392-9575 | |
| 7. Transporter 2 Company Name | | 8. US EPA ID Number | B. Transporter's Phone | |
| 9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM | | 10. US EPA ID Number | C. Facility's Phone | |
| 11. Waste Shipping Name and Description | | | 12. Containers No. Type | 13. Total Quantity |
| a. | | | | 10 yds |
| b. | | | | |
| c. | | | | |
| d. | | | | |
| D. Additional Descriptions for Materials Listed Above | | | E. Handling Codes for Wastes Listed Above | |
| 15. Special Handling Instructions and Additional Information | | | | |
| 16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | |
| Printed/Typed Name NICK DE LA CRUZ AD. Plant | | Signature <i>Nick de la Cruz</i> | | Month Day Year 9 13 06 |
| 17. Transporter 1 Acknowledgement of Receipt of Materials | | | | |
| Printed/Typed Name NICK DE LA CRUZ | | Signature <i>Nick de la Cruz</i> | | Month Day Year 9 13 06 |
| 18. Transporter 2 Acknowledgement of Receipt of Materials | | | | |
| Printed/Typed Name | | Signature | | Month Day Year |
| 19. Discrepancy Indication Space | | | | |
| 20. Facility Owner or Operator: Certification of receipt of wasted material covered by this manifest except as noted in Item 19. | | | | |
| Printed/Typed Name Jim Wilson | | Signature <i>Jim Wilson</i> | | Month Day Year |

WHITE - ORIGINAL